REPORT

NMTBA
The Association For Manufacturing Technology
Direct Dial: (703) 827-5260

STATISTICAL
No. 115-90 August 29, 1990

U.S. FOREIGN TRADE IN MANUFACTURING TECHNOLOGY – JUNE 1990
(Values in Millions of U.S. Dollars)

	June 1990	May 1990	Average Mar.-May	Year to Date '90	Year to Date '89	% Change YTD '89-'90
METAL CUTTING MACHINE TOOLS						
Exports	$ 44.0	$ 46.5	$ 50.1	$307.3	$220.0	39.7%
Imports	$137.8	$125.0	$136.6	$843.5	$921.6	(8.5%)
Balance	($ 93.8)	($ 78.5)	($ 86.5)	($536.2)	($701.6)	(23.6%)
METAL FORMING MACHINE TOOLS						
Exports	$ 42.7	$ 38.9	$ 40.3	$239.7	$246.4	(2.7%)
Imports	$ 45.0	$ 34.8	$ 37.6	$232.0	$288.4	(19.6%)
Balance	($ 2.3)	$ 4.1	$ 2.7	$ 7.7	($ 42.0)	N.M.
MACHINE TOOL TOTAL						
Exports	$ 86.7	$ 85.4	$ 90.4	$547.0	$ 466.4	17.3%
Imports	$182.8	$159.8	$174.2	$1,075.5	$1,210.0	(11.1%)
Balance	($ 96.1)	($ 74.4)	($ 83.8)	($528.5)	($ 743.6)	(28.9%)
NUMERICALLY CONTROLLED MACHINE TOOLS						
Exports	$ 22.6	$ 24.0	$ 29.2	$175.3	$112.5	55.8%
Imports	$ 83.5	$ 79.9	$ 94.8	$571.1	$633.6	(9.9%)
Balance	($ 60.9)	($ 55.9)	($ 65.6)	($395.8)	($521.1)	(24.0%)
OTHER MANUFACTURING TECHNOLOGY						
Exports	$155.6	$166.9	$159.0	$920.5	N.A.	N.A.
Imports	$147.4	$152.6	$162.5	$987.3	N.A.	N.A.
Balance	$ 8.2	$ 14.3	($ 3.5)	($ 66.8)	N.A.	N.A.

Note: Numerically controlled machine tools is a subgroup of the machine tool total. N.A. = not available; N.M. = not meaningful; ( ) denotes negative. Individual items may not add up to totals due to rounding.

• U.S. machine tool exports for the first half of 1990 were up 17% over the same period in 1989. The export total for the first six months of 1990 ($547.0 million) was higher than the exports for the first six months of any year since 1981.

• Machine tool imports in 1990 through June were down 11% compared with last year, even though imports in June ($182.8) were up 14% over May.

• U.S. exports of numerically controlled machine tools in 1990 through June were up 56% over last year. Imports of NC machines were down 10%.

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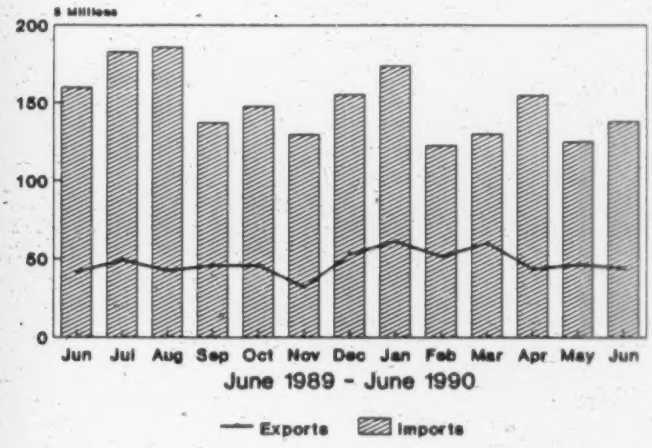
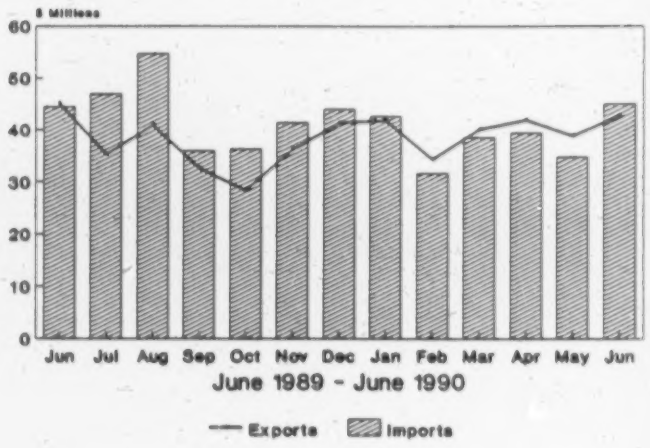
U.S. MONTHLY TRADE IN MACHINE TOOLS

METAL CUTTING



METAL FORMING



METAL CUTTING MACHINE TOOLS

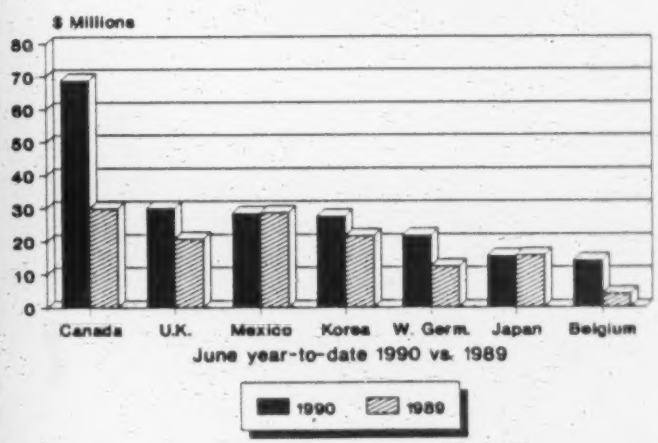
Exports

• Metal cutting exports in June fell 5% from May to $44.0 million. Exports of gear cutting machines in June ($7.7 million) were the highest since December 1989. Exports of boring and boring-milling machines ($0.7 million) were the lowest since October 1989.

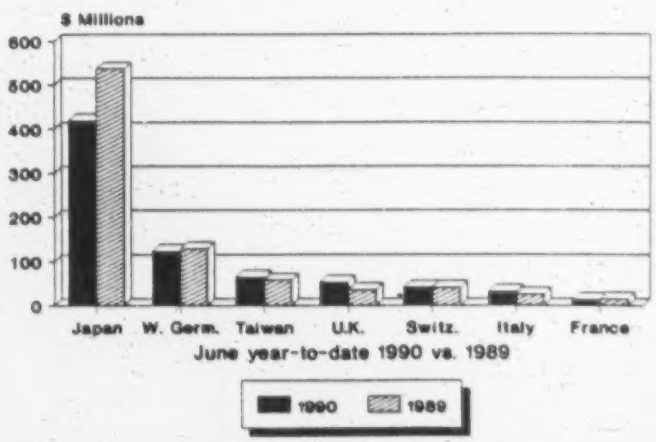
• U.S. metal cutting exports in 1990 through June were up 40% over 1989. Top markets: Canada ($68.9 million, up from $29.8 million); the United Kingdom ($30.0 million, up from $20.6 million) and Mexico ($28.4 million, down from $28.7 million).

• The top exports by type of machine: grinding machines ($64.1 million, up from $55.7 million); machining centers ($37.5 million, up from $18.9 million) and NC horizontal lathes ($26.1 million, up from $12.5 million).

LEADING U.S. EXPORT MARKETS
METAL CUTTING MACHINES



LEADING U.S. IMPORT SOURCES
METAL CUTTING MACHINES



Imports

• U.S. metal cutting imports rose 10% in June over May to $137.8 million. The monthly average so far in 1990: $140.6 million.

• Top imports by type of machine so far in 1990: machining centers ($201.7 million, 69% from Japan); NC horizontal lathes ($161.7 million, 85% from Japan); and grinding machines ($130.9 million, 33% from Japan, 27% from West Germany.)

• Year-to-date metal cutting imports from Japan were down 22%; imports from West Germany were down 4%. Imports from Brazil, mainly non-NC lathes, were up 171%.

METAL FORMING MACHINE TOOLS

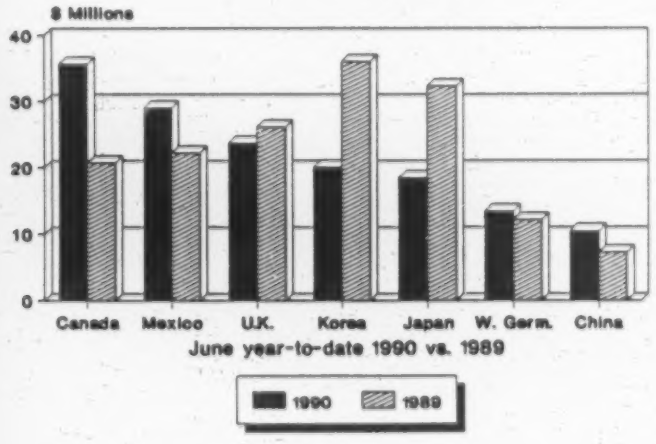
Exports

• U.S. exports of metal forming machines rose 10% in June to $42.7 million, paced by presses ($10.4 million) and punching and shearing machines ($7.9 million).

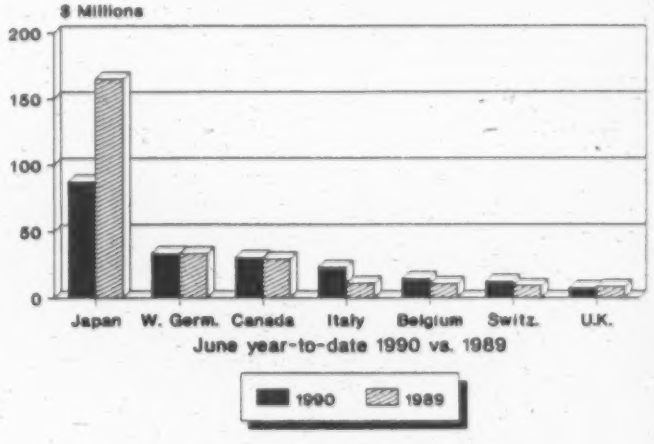
• Year-to-date exports of forming machines were $239.7 million, down 3% from 1989. Big gainer in 1990 year-to-date: presses at $58.7 million, vs. $37.3 million in 1989. Big loser: "metal forming machine tools not elsewhere classified", at $31.5 million vs. $60.1 million in 1989.

• Top U.S. export markets for metal forming machines in 1990 through June: Canada ($35.6 million); Mexico ($29.0 million); the United Kingdom ($23.7 million); South Korea ($20.1 million) and Japan ($18.5 million).

LEADING U.S. EXPORT MARKETS
METAL FORMING MACHINES



LEADING U.S. IMPORT SOURCES
METAL FORMING MACHINES



Imports

• Metal forming imports jumped to $45.0 million in June from $34.8 million in May, including a non-NC mechanical transfer press from Japan valued at $6.8 million.

• Year-to-date imports were down 20% from 1989. Imports of presses were down from $84.6 million in 1989 through June to $43.4 million in 1990; imports of forging machines were down from $49.9 million in 1989 to $30.7 million in 1990.

• The largest sources of metal forming imports in the first six months of 1990: Japan ($87.6 million, down 47% from 1989); West Germany ($33.5 million, up 1%); Canada ($30.6 million, up 5%) and Italy ($23.2 million, up 109%).

OTHER MANUFACTURING TECHNOLOGY

Exports

• U.S. exports of machine tool parts and accessories totalled $364.3 million in 1990 through June. The comparable number for 1989: $336.4 million.

• Year-to-date 1990 exports of numerical controls for controlling machine tools were $16.3 million, down from $21.0 million in 1989.

• U.S. exports of industrial robots (not including parts) were $33.7 million in 1990 through June, compared with $25.1 million in 1989 at the same time. The biggest markets in 1990: Canada ($16.9 million) and West Germany ($6.6 million).

Imports

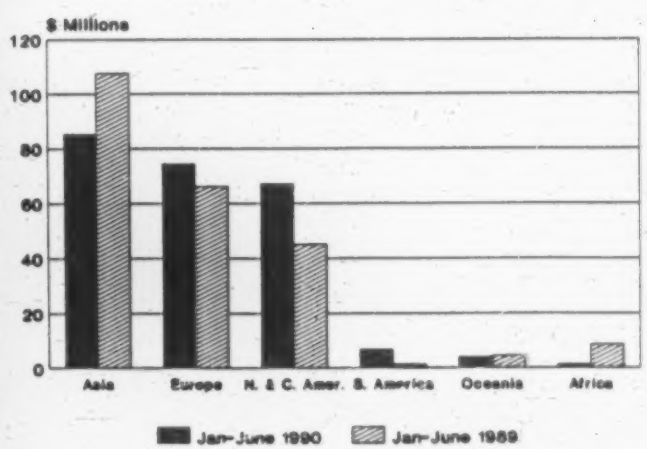
• U.S. imports of injection molding machines for thermoplastics, rubber or other thermosetting materials were $158.0 million in 1990 through June, down from $182.2 million in 1989 through June.

• Year-to-date imports of machine tool parts and accessories were $280.0 million, down from $341.7 million last year at this time. Imports of numerical controls rose from $23.5 million in 1989 to $25.9 million in 1990.

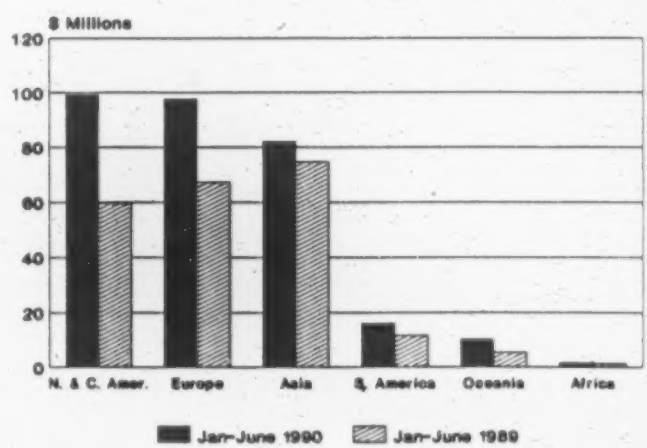
MONTHLY FOCUS

In 1989 through June, Asia was easily the top U.S. export region for metal forming machines, followed by Europe and North & Central America. The order is the same for 1990, but the three regions are much closer together – exports to Asia have fallen, but exports to Europe and North & Central America have risen. Asia was also the top market for metal cutting machines in 1989 through June, only to be supplanted in 1990 by both North & Central America and Europe. For metal cutting and metal forming combined, Europe was the top region in the first half of 1990, with U.S. exports of $172.4 million, followed by Asia ($167.6 million) and North & Central America ($166.6 million).

U.S. Metal Forming Machine Tool Exports



U.S. Metal Cutting Machine Tool Exports



1990 EXPORTS

METAL CUTTING

COUNTRY	JUNE	MAY	%CHANGE	JUN YTD'90	JUN YTD'89	%CHANGE
Canada	$ 8,211,929	$ 6,693,716	22.68%	$ 68,903,254	$29,817,997	131.08%
U.K.	3,138,964	4,900,020	-35.94	30,003,577	20,628,070	45.45
Mexico	4,588,718	4,429,836	3.59	28,439,391	28,692,423	-0.88
Korea	5,810,559	4,533,605	28.17	27,535,520	21,533,991	27.87
West Germany	2,650,471	5,195,633	-48.99	21,686,944	12,310,872	76.16
Japan	2,916,763	2,613,638	11.60	15,549,896	15,668,594	-0.76
Belgium	3,144,388	1,417,268	121.86	14,170,829	4,055,810	249.40
China	1,715,133	1,595,456	7.50	11,913,898	13,635,279	-12.62
India	1,159,705	624,527	85.69	10,124,429	4,158,289	143.48
Australia	300,188	1,962,761	-84.71	10,007,021	5,040,802	98.52
Brazil	1,257,004	861,918	45.84	8,699,159	4,054,359	114.56
Italy	1,572,870	746,666	110.65	8,129,329	7,645,583	6.33
France	202,196	668,436	-69.75	4,876,754	8,468,630	-42.41
Singapore	1,223,822	1,246,622	-1.83	4,403,797	4,955,914	-11.14
Venezuela	444,916	897,071	-50.40	3,658,542	4,532,128	-19.28
Taiwan	146,816	284,581	-48.41	3,399,239	4,544,203	-25.20
USSR	0	33,812	-100.00	3,241,319	729,360	344.41
Switzerland	654,355	317,301	106.23	3,028,906	2,466,512	22.80
Spain	514,182	575,869	-10.71	2,675,878	1,450,908	84.43
Netherlands	249,726	994,204	-74.88	2,526,922	3,202,271	-21.09
Thailand	92,736	19,287	380.82	1,145,658	1,118,357	2.44
Malaysia	180,053	26,061	590.89	642,908	427,251	50.48
Austria	8,850	56,165	-84.24	190,049	470,759	-59.63
Indonesia	15,206	0	NA	130,842	2,988,710	-95.62

METAL FORMING

COUNTRY	JUNE	MAY	%CHANGE	JUN YTD'90	JUN YTD'89	%CHANGE
Canada	$ 6,207,367	$ 4,543,183	36.63%	$ 35,638,256	$20,692,394	72.23%
Mexico	4,649,387	6,198,769	-24.99	28,992,751	22,181,932	30.70
U.K.	7,343,964	6,078,649	20.82	23,727,260	26,112,269	-9.13
Korea	3,181,811	1,971,841	61.36	20,053,838	36,024,695	-44.33
Japan	1,305,146	3,470,971	-62.40	18,460,279	32,297,929	-42.84
West Germany	2,004,273	2,658,596	-24.61	13,436,352	12,117,367	10.89
China	2,283,502	1,290,309	76.97	10,466,929	7,239,274	44.59
France	1,000,289	2,639,124	-62.10	9,742,923	4,660,454	109.06
Taiwan	1,286,302	228,704	462.43	8,987,397	5,804,763	54.83
Italy	428,157	1,838,777	-76.72	5,659,721	5,163,043	9.62
India	203,752	145,740	39.81	5,302,748	5,497,668	-3.55
Netherlands	723,419	497,594	45.38	3,990,488	1,435,139	178.06
Spain	1,680,213	351,890	377.48	3,321,914	2,767,528	20.03
Australia	459,225	183,371	150.43	3,293,028	4,484,763	-26.57
Singapore	484,998	549,143	-11.68	3,272,097	6,248,882	-47.64
Malaysia	1,418,351	102,871	1,278.77	3,128,863	735,806	325.23
Brazil	452,704	635,010	-28.71	2,746,149	2,919,299	-5.93
Thailand	1,681,444	270,383	521.87	2,428,334	1,689,113	43.76
Belgium	420,495	217,234	93.57	2,093,990	1,673,217	25.15
Austria	29,463	823,996	-96.42	1,632,485	616,150	164.95
Switzerland	370,469	37,346	891.99	1,380,508	944,057	46.23
Venezuela	337,214	197,932	70.37	863,100	5,751,808	-84.99
USSR	83,204	611,615	-86.40	694,819	107,711	545.08
Indonesia	19,930	0	NA	51,094	109,115	-53.17

TOTAL METAL CUTTING AND METAL FORMING

COUNTRY	JUNE	MAY	%CHANGE	JUN YTD'90	JUN YTD'89	%CHANGE
Canada	$14,419,296	$11,236,899	28.32%	$104,541,510	$50,510,391	106.97%
Mexico	9,238,105	10,628,605	-13.08	57,432,142	50,874,355	12.89
U.K.	10,482,928	10,978,669	-4.52	53,730,837	46,740,339	14.96
Korea	8,992,370	6,505,446	38.23	47,589,358	57,558,686	-17.32
West Germany	4,654,744	7,854,229	-40.74	35,123,296	24,428,239	43.78
Japan	4,221,909	6,084,609	-30.61	34,010,175	47,966,523	-29.10
China	3,998,635	2,885,765	38.56	22,380,827	20,874,553	7.22
Belgium	3,564,883	1,634,502	118.10	16,264,819	5,729,027	183.90
India	1,363,457	770,267	77.01	15,427,177	9,655,957	59.77
France	1,202,485	3,307,560	-63.64	14,619,677	13,129,084	11.35
Italy	2,001,027	2,585,443	-22.60	13,789,050	12,808,626	7.65
Australia	759,413	2,146,132	-64.61	13,300,049	9,525,565	39.62
Taiwan	1,433,118	513,285	179.21	12,386,636	10,348,966	19.69
Brazil	1,709,708	1,496,928	14.21	11,445,308	6,973,658	64.12
Singapore	1,708,820	1,795,765	-4.84	7,675,894	11,204,796	-31.49
Netherlands	973,145	1,491,798	-34.77	6,517,410	4,637,410	40.54
Spain	2,194,395	927,759	136.53	5,997,792	4,218,436	42.18
Venezuela	782,130	1,095,003	-28.57	4,521,642	10,283,936	-56.03
Switzerland	1,024,824	354,647	188.97	4,409,414	3,410,569	29.29
USSR	83,204	645,427	-87.11	3,936,138	837,071	370.23
Malaysia	1,598,404	128,932	1,139.73	3,771,771	1,163,057	224.30
Thailand	1,774,180	289,670	512.48	3,573,992	2,807,470	27.30
Austria	38,313	880,161	-95.65	1,822,534	1,086,909	67.68
Indonesia	35,136	0	NA	181,936	3,097,825	-94.13

1990 IMPORTS

METAL CUTTING

COUNTRY	JUNE	MAY	%CHANGE	JUN YTD'90	JUN YTD'89	%CHANGE
Japan	$61,866,240	$56,023,510	10.43%	$419,739,263	$536,786,644	-21.81%
West Germany	22,447,701	18,460,983	21.60	122,755,724	128,083,882	-4.16
Taiwan	10,017,567	12,443,652	-19.50	65,441,728	57,525,702	13.76
U.K.	9,276,274	8,525,986	8.80	53,433,104	36,204,058	47.59
Switzerland	10,115,054	7,324,423	38.10	41,705,349	41,186,418	1.26
Italy	6,879,295	1,841,480	273.57	31,692,294	24,501,007	29.35
France	2,118,338	2,670,995	-20.69	12,717,075	14,925,881	-14.80
Canada	1,345,208	3,304,632	-59.29	12,085,803	9,131,228	32.36
Spain	1,404,000	2,052,479	-31.59	11,598,733	10,142,048	14.36
Singapore	1,036,513	1,974,123	-47.50	10,783,961	7,043,666	53.10
Korea	1,933,092	1,824,164	5.97	10,560,566	12,955,461	-18.49
Brazil	1,596,332	1,606,499	-0.63	8,654,424	3,194,983	170.88
Sweden	1,953,507	774,729	152.15	6,723,003	5,368,675	25.23
Belgium	75,000	347,990	-78.45	1,015,740	4,078,293	-75.09

METAL FORMING

COUNTRY	JUNE	MAY	%CHANGE	JUN YTD'90	JUN YTD'89	%CHANGE
Japan	$16,849,910	$11,430,487	47.41%	$ 87,646,001	$165,115,575	-46.92%
West Germany	9,090,733	3,561,247	155.27	33,523,223	33,226,107	0.89
Canada	5,790,298	6,229,935	-7.06	30,640,856	29,234,386	4.81
Italy	2,947,774	3,694,664	-20.22	23,194,021	11,116,403	108.65
Belgium	2,959,103	3,761,307	-21.33	14,707,832	10,746,896	36.86
Switzerland	1,446,139	1,141,761	26.66	12,268,375	9,041,843	35.68
U.K.	1,451,611	1,554,462	-6.62	7,340,037	8,370,231	-12.31
Taiwan	1,128,375	348,831	223.47	5,704,133	4,914,410	16.07
Sweden	726,707	589,067	23.37	4,303,795	4,357,552	-1.23
Spain	210,141	780,852	-73.09	2,500,381	1,292,182	93.50
France	1,172,596	590,314	98.64	2,143,284	921,542	132.58
Korea	0	4,164	-100.00	123,692	174,508	-29.12
Singapore	3,954	0	NA	57,059	602,839	-90.53
Brazil	0	0	NA	0	143,425	-100.00

TOTAL METAL CUTTING AND METAL FORMING

COUNTRY	JUNE	MAY	%CHANGE	JUN YTD'90	JUN YTD'89	%CHANGE
Japan	$78,716,150	$67,453,997	16.70%	$507,385,264	$701,902,219	-27.71%
West Germany	31,538,434	22,022,230	43.21	156,278,947	161,309,989	-3.12
Taiwan	11,145,942	12,792,483	-12.87	71,145,861	62,440,112	13.94
U.K.	10,727,885	10,080,448	6.42	60,773,141	44,574,289	36.34
Italy	9,827,069	5,536,144	77.51	54,886,315	35,617,410	54.10
Switzerland	11,561,193	8,466,184	36.56	53,973,724	50,228,261	7.46
Canada	7,135,506	9,534,567	-25.16	42,726,659	38,365,614	11.37
Belgium	3,034,103	4,109,297	-26.16	15,723,572	14,825,189	6.06
France	3,290,934	3,261,309	0.91	14,860,359	15,847,423	-6.23
Spain	1,614,141	2,833,331	-43.03	14,099,114	11,434,230	23.31
Sweden	2,680,214	1,363,796	96.53	11,026,798	9,726,227	13.37
Singapore	1,040,467	1,974,123	-47.29	10,841,020	7,646,505	41.78
Korea	1,933,092	1,828,328	5.73	10,684,258	13,129,969	-18.63
Brazil	1,596,332	1,606,499	-0.63	8,654,424	3,338,408	159.24

1990 U.S. EXPORTS
BY PRODUCT GROUPS

PRODUCT TYPES	JANUARY 1990		FEBRUARY 1990		MARCH 1990		APRIL 1990	
	Units	Value	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	2,899	12,224,015	4,543	10,935,156	5,847	11,979,000	4,803	14,929,198
Boring Machines	13	958,297	8	1,407,307	13	1,519,123	8	1,954,122
Drilling Machines	110	2,255,419	53	920,425	94	2,533,602	62	1,031,525
Gear Cutting Machines	41	5,554,867	19	3,700,605	17	3,507,653	4	342,956
Grinding Machines	271	15,211,730	228	10,470,138	459	12,592,065	306	10,686,858
Horizontal Lathes NC	43	4,863,833	35	5,062,164	35	2,648,406	39	5,237,685
Vertical Lathes NC	5	1,223,137	0	0	16	892,377	5	262,000
Lathes Non-NC	58	1,113,041	48	1,473,294	76	1,855,222	65	2,364,278
Milling Machines	48	3,596,641	29	3,228,995	75	5,272,375	32	3,018,604
Machining Centers	65	7,526,957	34	6,062,752	50	8,542,651	26	4,477,012
Station Type Machines	10	5,374,341	28	7,752,282	8	4,611,947	2	596,029
Other Metal Cutting	314	7,165,369	312	7,438,893	364	9,303,138	269	6,223,447
Punching & Shearing Machines	107	4,427,453	121	9,826,370	155	5,546,446	111	3,759,666
Bending & Forming Machines	137	5,902,352	125	3,466,071	128	5,372,091	177	6,400,347
Presses	259	11,682,624	130	6,795,010	273	10,390,057	191	11,017,558
Forging Machines	26	5,015,295	16	2,278,536	31	3,378,097	26	3,198,154
Other Metal Forming	265	8,974,698	264	5,154,346	312	10,516,058	203	9,968,707
TOTAL	4,671	103,070,069	5,993	85,972,344	7,953	100,460,308	6,329	85,468,146

PRODUCT TYPES	MAY 1990		JUNE 1990		JUN 90' Y-T-D TOTALS	
	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	5,514	13,323,757	6,556	17,922,902	30,162	81,314,028
Boring Machines	23	2,694,052	28	725,470	93	9,258,371
Drilling Machines	141	1,391,074	120	1,137,000	580	9,269,045
Gear Cutting Machines	16	3,920,375	23	7,676,020	120	24,702,476
Grinding Machines	234	9,407,118	266	5,746,890	1,764	64,114,799
Horizontal Lathes NC	43	4,213,770	45	4,033,357	240	26,059,215
Vertical Lathes NC	4	245,844	1	63,000	31	2,686,358
Lathes Non-NC	60	1,105,382	85	1,435,017	392	9,346,234
Milling Machines	38	1,738,745	13	603,525	235	17,458,885
Machining Centers	23	4,666,577	39	6,176,997	237	37,452,946
Station Type Machines	2	2,487,300	0	0	50	20,821,899
Other Metal Cutting	484	5,316,601	378	6,376,676	2,121	41,824,124
Punching & Shearing Machines	162	6,578,641	178	7,923,077	834	38,061,653
Bending & Forming Machines	142	4,048,283	125	4,440,766	834	29,629,910
Presses	287	8,435,990	154	10,425,441	1,294	58,746,680
Forging Machines	67	6,501,594	40	3,738,610	206	24,110,286
Other Metal Forming	324	9,293,053	340	8,244,762	1,708	52,151,624
TOTAL	7,564	85,368,156	8,391	86,669,510	40,901	547,008,533

1990 U.S. EXPORTS
BY PRODUCT GROUPS

PRODUCT TYPES	JUNE 1989 Units	JUNE 1989 Value	JUN 89' Y-T-D TOTALS Units	JUN 89' Y-T-D TOTALS Value
Used & Rebuilt & Under $2,500	3,556	17,348,522	27,579	75,426,298
Boring Machines	29	1,671,316	174	10,838,898
Drilling Machines	33	1,653,649	149	8,356,436
Gear Cutting Machines	22	4,722,265	111	16,845,768
Grinding Machines	321	12,488,637	1,893	55,675,906
Horizontal Lathes NC	26	3,018,171	126	12,454,230
Vertical Lathes NC	5	738,521	10	1,297,260
Lathes Non-NC	41	776,438	252	6,996,980
Milling Machines	37	1,408,096	303	15,786,558
Machining Centers	14	1,650,056	127	18,934,047
Station Type Machines	0	0	30	9,246,286
Other Metal Cutting	226	8,360,124	1,286	28,412,887
Punching & Shearing Machines	120	4,665,277	599	30,038,856
Bending & Forming Machines	72	4,269,185	552	27,048,541
Presses	143	8,063,327	798	37,289,369
Forging Machines	74	4,247,697	368	20,574,236
Other Metal Forming	293	11,931,694	2,443	91,172,382
TOTAL	5,012	87,012,975	36,800	466,394,938

PRODUCT TYPES	% CHANGE MAY 90' - JUN 90' Units	% CHANGE MAY 90' - JUN 90' Value	% CHANGE JUN 89' - JUN 90' Units	% CHANGE JUN 89' - JUN 90' Value	% CHANGE YTD 89' - YTD 90' Units	% CHANGE YTD 89' - YTD 90' Value
Used & Rebuilt & Under $2,500	18.90	34.52	84.36	3.31	9.37	7.81
Boring Machines	21.74	-73.07	-3.45	-56.59	-46.55	-14.58
Drilling Machines	-14.89	-18.26	263.64	-31.24	289.26	10.92
Gear Cutting Machines	43.75	95.80	4.55	62.55	8.11	46.64
Grinding Machines	13.68	-38.91	-17.13	-53.98	-6.81	15.16
Horizontal Lathes NC	4.65	-4.28	73.08	33.64	90.48	109.24
Vertical Lathes NC	-75.00	-74.37	-80.00	-91.47	210.00	107.08
Lathes Non-NC	41.67	29.82	107.32	84.82	55.56	33.58
Milling Machines	-65.79	-65.29	-64.86	-57.14	-22.44	10.59
Machining Centers	69.57	32.37	178.57	274.35	86.61	97.81
Station Type Machines	-100.00	-100.00	0.00	0.00	66.67	125.19
Other Metal Cutting	-21.90	19.94	67.26	-23.73	64.93	47.20
Punching & Shearing Machines	9.88	20.44	48.33	69.83	39.23	26.71
Bending & Forming Machines	-11.97	9.70	73.61	4.02	51.09	9.54
Presses	-46.34	23.58	7.69	29.29	62.16	57.54
Forging Machines	-40.30	-42.50	-45.95	-11.99	-44.02	17.19
Other Metal Forming	4.94	-11.28	16.04	-30.90	-30.09	-42.80
TOTAL	10.93	1.52	67.42	-0.39	11.14	17.28

1990 U.S. IMPORTS
BY PRODUCT GROUPS

PRODUCT TYPES	JANUARY 1990		FEBRUARY 1990		MARCH 1990		APRIL 1990	
	Units	Value	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	80,165	15,101,348	66,011	10,754,274	64,814	11,170,439	83,714	12,296,755
Boring Machines	40	2,511,474	57	2,665,242	41	2,141,056	47	1,821,173
Drilling Machines	187	5,976,518	66	1,331,591	131	4,767,643	113	3,595,961
Gear Cutting Machines	37	5,386,214	39	3,472,430	74	3,683,095	34	4,189,126
Grinding Machines	722	28,410,149	631	18,196,164	723	19,376,535	737	21,052,417
Horizontal Lathes NC	342	34,310,797	275	24,455,772	290	24,294,192	281	25,715,875
Vertical Lathes NC	23	2,826,480	9	1,890,507	10	1,702,771	6	1,455,000
Lathes Non-NC	609	9,691,329	474	8,086,596	812	10,071,175	976	10,109,253
Milling Machines	450	9,477,437	369	5,328,255	490	4,451,840	598	7,693,031
Machining Centers	368	44,495,101	262	28,896,262	270	30,976,925	344	48,979,703
Station Type Machines	16	4,428,004	9	2,400,678	15	3,697,896	41	8,192,567
Other Metal Cutting	543	14,026,009	390	15,984,088	381	15,326,449	425	12,556,824
Punching & Shearing Machines	110	5,701,791	122	5,391,216	203	8,518,187	146	3,941,347
Bending & Forming Machines	206	7,285,979	152	5,080,016	191	7,366,810	213	6,322,513
Presses	339	7,092,434	368	3,381,548	100	4,367,203	138	9,524,846
Forging Machines	82	8,532,715	121	5,829,041	104	5,559,426	69	3,905,455
Other Metal Forming	289	10,864,319	259	10,882,669	205	10,852,813	196	13,040,125
TOTAL	84,528	216,118,098	69,614	154,026,349	68,854	168,324,455	88,078	194,391,971

PRODUCT TYPES	MAY 1990		JUNE 1990		JUN 90' Y-T-D TOTALS	
	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	81,467	13,702,955	85,374	12,270,934	461,545	75,296,705
Boring Machines	63	2,378,706	33	4,123,015	281	15,640,666
Drilling Machines	105	1,412,575	110	2,955,449	712	20,039,737
Gear Cutting Machines	60	1,682,253	14	2,742,090	258	21,155,208
Grinding Machines	761	22,855,644	751	21,054,909	4,325	130,945,818
Horizontal Lathes NC	246	26,717,053	257	26,221,605	1,691	161,715,294
Vertical Lathes NC	12	2,697,583	10	1,453,386	70	12,025,727
Lathes Non-NC	684	8,838,746	758	16,925,801	4,313	63,722,900
Milling Machines	498	6,400,652	481	7,074,128	2,886	40,425,343
Machining Centers	212	21,375,164	269	26,963,021	1,725	201,686,176
Station Type Machines	9	5,207,130	4	4,151,942	94	28,078,217
Other Metal Cutting	477	14,389,120	302	13,417,230	2,518	85,699,720
Punching & Shearing Machines	168	5,567,876	165	6,624,692	914	35,745,109
Bending & Forming Machines	245	7,810,331	181	8,443,572	1,188	42,309,221
Presses	410	4,231,697	74	14,834,727	1,429	43,432,455
Forging Machines	46	3,389,713	85	3,437,927	507	30,654,277
Other Metal Forming	198	11,187,287	186	10,134,241	1,333	66,961,454
TOTAL	85,661	159,844,485	89,054	182,828,669	485,789	1,075,534,027

1990 U.S. IMPORTS
BY PRODUCT GROUPS

PRODUCT TYPES	JUNE 1989 Units	JUNE 1989 Value	JUN 89' Y-T-D TOTALS Units	JUN 89' Y-T-D TOTALS Value
Used & Rebuilt & Under $2,500	69,060	13,921,578	298,201	76,869,292
Boring Machines	72	2,527,722	442	30,547,185
Drilling Machines	152	4,725,223	966	46,010,435
Gear Cutting Machines	145	5,584,652	397	20,659,473
Grinding Machines	774	23,858,043	3,981	136,689,036
Horizontal Lathes NC	359	31,870,568	2,076	193,054,924
Vertical Lathes NC	13	2,027,113	81	10,390,667
Lathes Non-NC	444	11,364,045	2,645	45,967,905
Milling Machines	534	5,485,628	2,832	57,028,146
Machining Centers	326	40,246,641	1,720	190,543,864
Station Type Machines	19	4,361,363	102	27,098,956
Other Metal Cutting	423	15,836,967	2,531	98,166,598
Punching & Shearing Machines	226	8,847,890	884	37,604,868
Bending & Forming Machines	200	9,413,493	1,492	50,183,617
Presses	156	8,735,506	1,010	84,587,413
Forging Machines	105	5,532,553	855	49,897,517
Other Metal Forming	188	9,705,046	3,361	54,676,312
TOTAL	73,196	204,044,031	323,576	1,209,976,208

PRODUCT TYPES	% CHANGE MAY 90' - JUN 90' Units	% CHANGE MAY 90' - JUN 90' Value	% CHANGE JUN 89'- JUN 90' Units	% CHANGE JUN 89'- JUN 90' Value	% CHANGE YTD 89' - YTD 90' Units	% CHANGE YTD 89' - YTD 90' Value
Used & Rebuilt & Under $2,500	4.80	-10.45	23.62	-11.86	54.78	-2.05
Boring Machines	-47.62	73.33	-54.17	63.11	-36.43	-48.80
Drilling Machines	4.76	109.22	-27.63	-37.45	-26.29	-56.45
Gear Cutting Machines	-76.67	63.00	-90.34	-50.90	-35.01	2.40
Grinding Machines	-1.31	-7.88	-2.97	-11.75	8.64	-4.20
Horizontal Lathes NC	4.47	-1.85	-28.41	-17.72	-18.55	-16.23
Vertical Lathes NC	-16.67	-46.12	-23.08	-28.30	-13.58	15.74
Lathes Non-NC	10.82	91.50	70.72	48.94	63.06	38.62
Milling Machines	-3.41	10.52	-9.93	28.96	1.91	-29.11
Machining Centers	26.89	26.14	-17.48	-33.01	0.29	5.85
Station Type Machines	-55.56	-20.26	-78.95	-4.80	-7.84	3.61
Other Metal Cutting	-36.69	-6.75	-28.61	-15.28	-0.51	-12.70
Punching & Shearing Machines	-1.79	18.98	-26.99	-25.13	3.39	-4.95
Bending & Forming Machines	-26.12	8.11	-9.50	-10.30	-20.38	-15.69
Presses	-81.95	250.56	-52.56	69.82	41.49	-48.65
Forging Machines	84.78	1.42	-19.05	-37.86	-40.70	-38.57
Other Metal Forming	-6.06	-9.41	-1.06	4.42	-60.34	22.47
TOTAL	3.96	14.38	21.67	-10.40	50.13	-11.11

U.S. EXPORTS
Metal Cutting Machine Tools - June 90

RELEASED: August 29, 1990

		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8456300000	Electro-discharge machines	40	2893	5	397
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm(26")	50	8768	12	1821
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm(26")	10	2043	0	0
100035	Horiz. mach. ctrs., ATC	35	9690	9	2054
100045	Mach. ctrs., n.e.c.	142	16952	18	2302
200010	Unit construction mach. (single station transfer), NC	0	0	0	0
200090	Unit construction mach. (single station transfer), non-NC	7	3468	0	0
300010	Multi-station transfer machines, NC	7	11259	0	0
300090	Multi-station transfer machines, non-NC	22	4138	0	0
8458110010	Horiz. lathes, multiple spindle, NC	15	3582	1	134
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	181	13796	33	2508
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	30	4048	10	1046
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	14	4634	1	345
190030	Horiz. engine or toolroom lathes, non-NC	74	1460	14	311
190050	Automatic bar and/or chucking mach., single spindle, non-NC	6	239	3	108
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	27	1233	0	0
190090	Horiz. lathes, n.e.c., non-NC	213	2670	58	651
911060	Vertical turret lathes, multiple spindle, NC	1	63	1	63
911080	Vertical turret lathes, n.e.c., NC	2	316	0	0
915050	Vertical lathes, excl. VTL's, mult. spindle, NC	14	657	0	0
915070	Vertical lathes, excl. VTL's, n.e.c., NC	14	1650	0	0
991050	Vertical turret lathes, non-NC	23	572	0	0
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	49	3173	10	365
8459100000	Way-type unit head machines	14	1957	0	0
210080	Other drilling machines, NC	54	4675	5	303
290040	Drilling machines, multiple spindle, non-NC	14	715	2	188
290050	Drilling machines, radial, non-NC	17	145	1	5
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	52	1002	3	23
290090	Drilling machines, n.e.c., non-NC	443	2733	109	618
310010	Boring-milling mach., horiz. spind., table, excl. planer, NC	3	1569	0	0
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	3	1481	0	0
310070	Boring-milling mach., n.e.c., NC	8	385	3	172
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	2	250	0	0
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	21	799	12	171
400040	Boring machines, vertical, NC	2	899	0	0
400050	Boring machines, vertical, non-NC	29	491	4	76
400070	Boring machines, n.e.c., NC	7	2536	0	0
400080	Boring machines, n.e.c., non-NC	18	849	9	307
510080	Milling machines, knee type, NC	11	713	2	91
590030	Milling machines, knee type, non-NC	49	1549	3	99
610080	Milling machines, excl. knee type, n.e.c., NC	33	9853	1	290
690050	Milling machines, profile, dup., or die sinking, non-NC	22	511	1	16
690070	Milling machines, bed type, non-NC	1	50	0	0
690090	Milling machines, n.e.c., non-NC	119	4782	6	108
700020	Threading or tapping machines, n.e.c., NC	16	749	4	100
700080	Threading or tapping machines, n.e.c., non-NC	235	2484	44	484
8460110080	Flat surface grinding mach., NC	35	3284	6	941
190010	Flat surface grinding mach., recip.-table type, non-NC	29	565	1	12
190050	Flat surface grinding mach., n.e.c., non-NC	22	3635	2	317
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	49	15041	4	1035
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	16	2206	1	52
290030	Grinding mach., internal cylindrical, non-NC	24	2455	4	143
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	182	7517	13	382
310080	Sharpening machines (tool & cutter grinding), NC	26	1646	15	478
390050	Sharpening machines (tool & cutter grinding), non-NC	461	9421	77	610
400060	Honing or lapping machines, NC	0	0	0	0
400080	Honing or lapping machines, non-NC	351	8240	49	670
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	6	765	0	0
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	563	9342	94	1107
8461100060	Planing machines, NC	1	111	0	0
100080	Planing machines, non-NC	177	5304	26	322
200010	Shaping or slotting machines, NC	3	87	0	0
200090	Shaping or slotting machines, non-NC	23	581	3	44
300060	Broaching machines, NC	10	1139	0	0
300080	Broaching machines, non-NC	18	1245	4	87
401050	Gear hobbers	12	2040	3	901
401070	Gear shapers	18	3684	2	739
401090	Gear cutting machines, n.e.c.	48	15581	14	5164
405060	Gear grinding or finishing machines	42	3397	4	872
500050	Sawing or cutting-off machines, NC	83	2576	11	619
500090	Sawing or cutting-off machines, non-NC	758	9810	122	1366
9000000001	Metal cutting machine tools, n.e.c.	757	14846	159	2958
9800000001	Used or rebuilt machine tools	2473	33122	431	7564
9900000001	Machine tools valued at less than $2,500	18684	11198	3924	2469
	Cutting Total			5353	44006
	Y-T-D Cutting Total	27020	307315		
	NC Y-T-D Cutting Total*	994	131509		

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - June 90

	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	5	397
8457100015	0	0	0	0	5	603	0	0	4	618
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	4	758	0	0	2	307
100045	0	0	0	0	0	0	0	0	2	202
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	8	649	0	0	1	45
110050	0	0	0	0	7	730	0	0	2	236
110090	0	0	0	0	0	0	1	345	0	0
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	2	47
190070	0	0	0	0	0	0	0	0	0	0
190090	30	76	0	0	0	0	0	0	5	128
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	5	137
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	1	21
290050	0	0	0	0	0	0	0	0	1	5
290070	0	0	0	0	0	0	0	0	3	23
290090	0	0	0	0	0	0	0	0	25	177
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	1	105
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	3	66
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	1	19
510080	0	0	0	0	0	0	0	0	2	91
590030	1	35	0	0	0	0	0	0	1	17
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	1	16	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	1	9
700020	0	0	0	0	3	76	0	0	0	0
700080	2	17	0	0	2	126	0	0	9	120
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	1	12
190050	0	0	0	0	0	0	1	131	0	0
210080	0	0	0	0	0	0	0	0	2	616
290010	0	0	0	0	0	0	0	0	1	52
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	3	87
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	19	105
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	10	199
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	1	9	0	0	0	0	21	346
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	6	17	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	1	32
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	2	28
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	1	499
401090	0	0	0	0	0	0	1	385	0	0
405060	0	0	0	0	0	0	0	0	1	757
500050	0	0	0	0	0	0	0	0	11	619
500090	1	15	0	0	9	170	0	0	29	334
9000000001	0	0	0	0	0	0	1	3	16	127
9800000001	3	91	0	0	1	12	10	360	87	1316
9900000001	71	67	0	0	8	19	0	0	299	312
Month Tot	108	300	1	9	47	3144	21	1257	580	8212
Y-T-D Tot	1125	10007	85	190	336	14171	483	8699	3225	68903
NC YTD Tot*	13	4758	1	23	109	12600	11	1965	236	38865

Please see notes on last page of the metal forming section.

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	China		France		India		Indonesia		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	1	652	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	1	99	0	0	0	0	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	2	109
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	0	0	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	1	5	1	126
8460110080	1	787	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	0	0
190050	1	186	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	1	27
290050	0	0	0	0	0	0	0	0	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	1	49	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	7	38	0	0	0	0	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	4	23	0	0	0	0	0	0
8461100060	0	0	0	0	0	0	0	0	0	0
100080	1	46	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	2	840	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	0	0	0	0	0	0	0	0	0	0
9000000001	0	0	0	0	0	0	0	0	30	1099
9800000001	5	44	2	8	12	241	0	0	22	190
9900000001	0	0	52	34	266	31	11	10	33	22
Month Tot	9	1715	66	202	281	1160	12	15	89	1573
Y-T-D Tot	153	11914	686	4877	494	10124	64	131	919	8129
NC YTD Tot*	25	7583	44	2999	10	3031	0	0	39	1698

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	Japan		Korea		Malaysia		Mexico		Netherlands	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	3	601	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	1	496	0	0	7	516	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	1	134	0	0
110030	0	0	1	76	0	0	1	43	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	1	3	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	14	213	0	0
911060	0	0	0	0	0	0	1	63	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	1	14	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	3	203	0	0
290040	0	0	0	0	0	0	1	167	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	17	142	1	6	0	0	38	167	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	3	128	0	0	5	160	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	0	0	1	290	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	4	94	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	3	19	0	0
8460110080	0	0	0	0	0	0	1	28	2	64
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	0	0	2	419	0	0	0	0	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	3	29	0	0
310080	0	0	0	0	0	0	14	459	0	0
390050	40	260	4	27	4	28	5	112	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	1	9	0	0	3	45	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	18	181	32	350	0	0	4	21	0	0
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	13	145	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	2	59	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	1	240	0	0
401090	5	373	6	3734	0	0	1	47	0	0
405060	0	0	1	58	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	1	9	1	19	0	0	9	99	34	133
9000000001	6	408	0	0	0	0	8	69	3	31
9800000001	35	1341	6	166	0	0	80	550	0	0
9900000001	439	203	37	33	102	152	874	289	25	22
Month Tot	561	2917	97	5811	106	180	1101	4589	64	250
Y-T-D Tot	2059	15550	892	27536	184	643	5189	28439	299	2527
NC YTD Tot*	45	5033	51	9030	0	0	119	7388	9	860

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	Singapore		Spain		Switzerland		Taiwan		Thailand	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	1	170	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	0	0	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	11	66	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	1	47	0	0
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	2	8	0	0	0	0	0	0	0	0
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	4	155	0	0	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	1	3	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	7	80	0	0	0	0	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	3	36	3	79	0	0	1	5	0	0
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	1	10	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	1	5	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	0	0	0	0	1	10	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	0	0	0	0	0	0	2	32	0	0
9000000001	90	1130	0	0	3	30	0	0	0	0
9800000001	0	0	40	351	2	19	5	13	8	19
9900000001	91	46	14	5	319	195	39	46	52	73
Month Tot	187	1224	64	514	342	654	49	147	60	93
Y-T-D Tot	881	4404	204	2676	636	3029	440	3399	122	1146
NC YTD Tot*	10	520	24	998	2	419	14	944	2	122

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	U.K.		USSR		Venezuela		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	2	687	1	302
100045	4	267	0	0	2	107	1	61	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	21	1596	0	0	0	0	0	0	0	0
110050	1	80	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	12	293	0	0	0	0	1	15	0	0
190050	1	61	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	3	30	0	0	0	0	2	9	3	25
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	2	105	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	2	100	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	1	3	0	0	13	58	0	0	14	66
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	3	172
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	1	10
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	1	5	0	0
700020	0	0	0	0	0	0	0	0	1	24
700080	0	0	0	0	23	59	0	0	1	3
8460110080	0	0	0	0	0	0	0	0	2	62
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	3	116	0	0
290050	0	0	0	0	0	0	3	111	0	0
310080	0	0	0	0	0	0	0	0	1	19
390050	0	0	0	0	0	0	3	26	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	17	255	4	44
900060	0	0	0	0	0	0	0	0	0	0
900080	3	20	0	0	0	0	0	0	4	37
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	1	5	4	98
200010	0	0	0	0	0	0	0	0	0	0
200090	1	8	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	1	61	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	1	625	0	0
405060	0	0	0	0	0	0	0	0	1	48
500050	0	0	0	0	0	0	0	0	0	0
500090	17	269	0	0	0	0	9	155	10	132
9000000001	0	0	0	0	0	0	0	0	2	61
9800000001	11	239	0	0	6	190	47	460	49	1954
9900000001	168	69	0	0	43	31	121	59	860	751
Month Tot	247	3139	0	0	87	445	213	2650	961	3807
Y-T-D Tot	2329	30004	15	3241	488	3659	1460	21687	4252	22231
NC YTD Tot*	123	19871	0	0	3	217	29	4778	75	7808

Please see notes on last page of the metal forming section.

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RELEASED: August 29, 1990

Metal Forming Machine Tools		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8454300010	Die casting machines	203	5593	36	228
8462100030	Headers and upsetters, including cold headers	30	9556	5	1007
100050	Forging or die stamping machines, and hammers, n.e.c.	176	14554	35	2731
210080	Bending, folding, straight, or flat. mach., incl presses, NC	158	12616	38	2433
290030	Press brakes, non-NC	109	2674	12	474
290040	Bending rolls, non-NC	43	920	2	18
290050	Bending, folding, straight., or flat., n.e.c., non-NC	524	13420	73	1516
310080	Shearing machines, NC	44	4545	6	1358
390050	Shearing machines, non-NC	202	4261	42	1021
410080	Punching or notching mach., incl. comb. punch & shear, NC	102	15536	15	1124
490050	Punching or notching mach., incl. comb. punch & sh., non-NC	486	13719	115	4420
910060	Hydraulic presses, NC	38	2637	4	185
910090	Hydraulic presses, non-NC	383	17521	61	2998
990030	Presses, n.e.c., NC	78	8480	10	1646
990040	Presses, mechanical, non-NC	53	6257	10	1763
990060	Presses, n.e.c., non-NC	742	23851	69	3833
8463100080	Draw benches for bars, tubes, profiles, wire or the like	91	2496	15	902
200080	Thread rolling machines	27	1391	1	20
300080	Machines for working wire	351	11171	67	1238
900080	Metal forming machine tools, n.e.c.	1036	31500	221	5857
9800000002	Used or rebuilt machine tools	1848	31671	482	6713
9900000002	Machine tools valued at less than $2,500	7157	5322	1719	1178
	Forming Total			3038	42663
	Y-T-D Forming Total	13881	239694		
	NC Y-T-D Forming Total	420	43814		
	Cutting and Forming Totals:				
	Monthly Total			8391	86670
	Y-T-D Total	40901	547009		
	NC Y-T-D Total*	1414	175323		

Other Manufacturing Technology		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
1000000000	Machine tool parts and accessories	0	364293	0	58229
2000000000	Parts for working rubber or plastics - heading 8477	0	146116	0	23457
2710003070	Quenching or cutting oils	0	15366	0	6914
8428900010	Industrial robots for lifting, handling, loading or unload	208	3597	57	1142
8431390090	Parts industrial robots, handling and loading - heading 8428	0	37082	0	5152
8456100000	Laser, light or photon beam for working any material	406	19700	64	2533
200000	Ultrasonic process for working any material	55	1295	8	155
8477106010	Injection molding mach., for rubber or oth. thermosetting	118	7862	39	1724
106070	Injection molding mach., for thermoplastics	196	24548	47	6357
200010	Extruders for rubber or other thermosetting materials	204	8157	18	770
200050	Extruders for processing thermoplastics	425	19574	61	2927
300000	Blow molding machines	335	25756	124	8932
400000	Vacuum-molding and other thermoforming machines	4185	7199	7	105
510010	Machines for molding or retreading pneumatic tires	466	9498	21	667
510090	Machines for molding or otherwise forming inner tubes	190	23836	17	1042
590000	Machines for molding or otherwise forming n.e.c.	649	12256	47	1659
800000	Machines for working rubber or plastics n.e.c.	2046	53885	372	8938
8479899040	Industrial robots, n.e.c.	3019	30138	435	5503
908040	Industrial robot parts	0	16948	0	2039
8537100030	Numerical controls for controlling machine tools	1125	16331	173	3024
9024100000	Machines and appliances for testing metals	0	36373	0	6985
9031100000	Machines for balancing mechanical parts	0	16472	0	2518
300000	Profile projectors	0	4518	0	1479
9032810040	Industrial process control instr., hydraulic or pneumatic	323463	19764	60892	3426

Note: Product code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "NC Y-T-D Total" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.
n.e.c. - Not elsewhere classified.

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	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	0	0	0	0
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	0	0	1	38	0	0	5	524
210080	4	237	0	0	0	0	2	63	3	239
290030	0	0	0	0	0	0	0	0	4	123
290040	0	0	0	0	0	0	0	0	1	9
290050	0	0	0	0	0	0	0	0	19	260
310080	1	81	0	0	0	0	0	0	3	1196
390050	0	0	0	0	0	0	0	0	5	131
410080	0	0	0	0	0	0	0	0	1	26
490050	1	30	0	0	0	0	0	0	16	323
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	0	0	0	0	0	0	2	221
990030	0	0	0	0	0	0	0	0	0	0
990040	0	0	0	0	0	0	0	0	1	19
990060	0	0	0	0	0	0	10	273	8	52
8463100080	3	54	0	0	3	36	0	0	2	319
200080	0	0	0	0	0	0	0	0	0	0
300080	1	44	1	29	0	0	3	63	7	214
900080	0	0	0	0	0	0	0	0	13	329
9800000002	0	0	0	0	0	0	1	41	134	2024
9900000002	14	13	0	0	404	346	16	13	210	199
Month Tot	24	459	1	29	408	420	32	453	434	6207
Y-T-D Tot	216	3293	37	1632	514	2094	313	2746	2235	35638
NC YTD Tot	22	1734	0	0	0	0	8	501	83	11068
C&F Month	132	759	2	38	455	3565	53	1710	1014	14419
C&F Y-T-D	1341	13300	122	1823	850	16265	796	11445	5460	104542
C&F NC YTD*	35	6491	1	23	109	12600	19	2466	319	49934

Other Manufacturing Technology

1000000000	0	986	0	317	0	1069	0	1246	0	13310
2000000000	0	2061	0	63	0	348	0	545	0	5913
2710003070	0	8	0	0	0	0	0	4	0	145
8428900010	0	0	0	0	0	0	0	0	0	0
8431390090	0	636	0	0	0	58	0	41	0	2049
8456100000	0	0	0	0	1	12	0	0	5	443
200000	0	0	0	0	0	0	0	0	1	15
8477106010	0	0	0	0	0	0	32	1324	1	60
106070	2	47	0	0	0	0	3	941	14	2842
200010	0	0	0	0	0	0	0	0	10	286
200050	2	82	0	0	0	0	0	0	2	47
300000	29	44	0	0	2	215	1	1942	2	835
400000	0	0	0	0	2	16	0	0	0	0
510010	0	0	0	0	0	0	0	0	0	0
510090	0	0	0	0	0	0	0	0	0	0
590000	0	0	1	54	1	12	0	0	6	441
800000	4	35	0	0	19	296	3	45	102	2768
8479899040	0	0	0	0	0	0	0	0	218	2226
908040	0	4	0	3	0	12	0	0	0	1104
8537100030	0	0	0	0	7	98	2	37	14	255
9024100000	0	89	0	7	0	21	0	27	0	970
9031100000	0	0	0	0	0	96	0	0	0	761
300000	0	0	0	0	0	0	0	0	0	71
9032810040	1227	64	361	18	1019	51	0	0	1123	174

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
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	China		France		India		Indonesia		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	5	55	22	104	0	0	0	0
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	0	0	1	65	0	0	0	0
210080	0	0	4	169	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	1	69	3	15	0	0	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	17	275	0	0	0	0	0	0
410080	0	0	0	0	0	0	0	0	0	0
490050	49	905	0	0	0	0	0	0	9	110
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	2	34	0	0	1	20	0	0
990030	0	0	0	0	0	0	0	0	0	0
990040	0	0	1	201	0	0	0	0	0	0
990060	0	0	0	0	0	0	0	0	1	16
8463100080	0	0	0	0	0	0	0	0	0	0
200080	1	20	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	29	252
900080	1	92	3	79	1	20	0	0	3	48
9800000002	117	1261	12	86	0	0	0	0	0	0
9900000002	6	5	34	34	0	0	0	0	8	3
Month Tot	174	2284	79	1000	27	204	1	20	50	428
Y-T-D Tot	328	10467	334	9743	280	5303	7	51	180	5660
NC YTD Tot	3	2629	36	4031	0	0	0	0	3	589
C&F Month	183	3999	145	1202	308	1363	13	35	139	2001
C&F Y-T-D	481	22381	1020	14620	774	15427	71	182	1099	13789
C&F NC YTD*	28	10212	80	7030	10	3031	0	0	42	2287

Other Manufacturing Technology

1000000000	0	490	0	4853	0	247	0	24	0	1253
2000000000	0	72	0	321	0	438	0	49	0	334
2710003070	0	0	0	30	0	0	0	13	0	5
8428900010	0	0	18	523	0	0	0	0	0	0
8431390090	0	5	0	75	0	19	0	5	0	23
8456100000	0	0	0	0	0	0	0	0	20	460
200000	0	0	0	0	0	0	0	0	1	13
8477106010	0	0	0	0	0	0	0	0	0	0
106070	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200050	6	140	4	89	2	1109	0	0	0	0
300000	0	0	0	0	0	0	0	0	0	0
400000	0	0	0	0	0	0	0	0	0	0
510010	0	0	0	0	0	0	2	45	1	73
510090	0	0	0	0	3	840	2	17	0	0
590000	0	0	2	19	3	39	0	0	3	402
800000	1	465	2	29	1	336	4	63	1	14
8479899040	0	0	5	31	0	0	0	0	22	848
908040	0	0	0	101	0	0	0	0	0	32
8537100030	0	0	19	268	0	0	0	0	4	67
9024100000	0	11	0	180	0	8	0	0	0	335
9031100000	0	76	0	0	0	471	0	0	0	4
300000	0	0	0	0	0	0	0	0	0	0
9032810040	141	15	3091	157	146	7	0	0	4822	312

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
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	Japan		Korea		Malaysia		Mexico		Netherlands	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	0	0	1	33
8462100030	1	209	0	0	0	0	0	0	0	0
100050	0	0	7	358	1	107	3	241	0	0
210080	0	0	4	610	0	0	13	518	0	0
290030	0	0	0	0	0	0	1	28	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	7	79	1	6	0	0	10	266	0	0
310080	0	0	0	0	0	0	1	50	0	0
390050	0	0	0	0	0	0	9	194	0	0
410080	0	0	0	0	0	0	6	509	7	530
490050	2	31	0	0	0	0	6	35	0	0
910060	2	92	0	0	0	0	1	51	0	0
910090	3	111	1	13	0	0	44	728	0	0
990030	0	0	0	0	6	136	0	0	0	0
990040	0	0	0	0	0	0	0	0	0	0
990060	4	215	2	1935	0	0	33	503	0	0
8463100080	0	0	0	0	0	0	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	1	81	4	159	0	0	6	119	0	0
900080	9	284	1	11	21	1120	22	294	6	156
9800000002	21	159	3	57	3	56	117	991	0	0
9900000002	76	44	37	33	0	0	149	122	3	5
Month Tot	126	1305	60	3182	31	1418	421	4649	17	723
Y-T-D Tot	1048	18460	406	20054	66	3129	3079	28993	155	3990
NC YTD Tot	18	2832	32	2672	8	201	64	4058	26	2352
C&F Month	687	4222	157	8992	137	1598	1522	9238	81	973
C&F Y-T-D	3107	34010	1298	47589	250	3772	8268	57432	454	6517
C&F NC YTD*	63	7865	83	11701	8	201	183	11446	35	3211

Other Manufacturing Technology

1000000000	0	4723	0	2130	0	240	0	3968	0	434
2000000000	0	562	0	1147	0	369	0	2043	0	143
2710003070	0	57	0	9	0	0	0	65	0	0
8428900010	0	0	1	13	0	0	0	0	0	0
8431390090	0	201	0	36	0	0	0	265	0	21
8456100000	20	755	0	0	0	0	0	0	3	61
200000	1	13	0	0	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	3	164	0	0
106070	3	199	0	0	0	0	12	708	0	0
200010	0	0	0	0	0	0	5	451	0	0
200050	0	0	33	352	0	0	2	191	0	0
300000	0	0	30	2788	0	0	6	2201	0	0
400000	0	0	0	0	0	0	4	46	0	0
510010	1	8	0	0	2	84	0	0	0	0
510090	0	0	0	0	4	16	5	57	0	0
590000	9	227	0	0	0	0	7	191	0	0
800000	4	77	49	1606	0	0	57	1788	6	94
8479899040	5	176	2	83	0	0	14	34	1	8
908040	0	298	0	41	0	4	0	8	0	72
8537100030	8	122	11	144	1	16	1	22	2	19
9024100000	0	1145	0	1098	0	5	0	179	0	187
9031100000	0	9	0	116	0	0	0	201	0	0
300000	0	712	0	517	0	0	0	3	0	11
9032810040	1806	175	4377	253	0	0	2926	228	6792	347

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
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Metal Forming

	Singapore		Spain		Switzerland		Taiwan		Thailand	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	0	0	0	0
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	0	0	0	0	0	0	1	37
210080	0	0	0	0	0	0	0	0	0	0
290030	0	0	6	254	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	2	25	0	0	0	0	16	245	1	14
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	2	286	0	0	0	0
410080	0	0	0	0	0	0	0	0	0	0
490050	1	45	1	1015	1	9	1	3	11	104
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	0	0	0	0	0	0	2	1472
990030	0	0	0	0	0	0	0	0	0	0
990040	1	30	0	0	0	0	4	199	0	0
990060	0	0	0	0	1	27	2	108	0	0
8463100080	0	0	0	0	0	0	1	426	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	0	0	4	58	0	0	0	0	2	50
900080	2	21	0	0	0	0	0	0	0	0
9800000002	3	348	18	353	0	0	15	299	0	0
9900000002	20	16	0	0	57	48	20	7	6	5
Month Tot	29	485	29	1680	61	370	59	1286	23	1681
Y-T-D Tot	252	3272	78	3322	188	1381	219	8987	64	2428
NC YTD Tot	4	261	3	115	1	30	20	1475	1	68
C&F Month	216	1709	93	2194	403	1025	108	1433	83	1774
C&F Y-T-D	1133	7676	282	5998	824	4409	659	12387	186	3574
C&F NC YTD*	14	781	27	1113	3	449	34	2419	3	190

Other Manufacturing Technology

1000000000	0	977	0	453	0	404	0	1158	0	466
2000000000	0	136	0	1198	0	107	0	122	0	75
2710003070	0	52	0	16	0	11	0	187	0	10
8428900010	0	0	0	0	1	115	0	0	0	0
8431390090	0	126	0	0	0	0	0	12	0	0
8456100000	0	0	0	0	0	0	5	510	0	0
200000	0	0	0	0	0	0	0	0	0	0
8477106010	2	150	0	0	0	0	0	0	0	0
106070	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	2	20	0	0
200050	0	0	0	0	0	0	0	0	0	0
300000	0	0	0	0	0	0	12	216	32	588
400000	0	0	0	0	0	0	0	0	0	0
510010	0	0	1	76	0	0	0	0	0	0
510090	0	0	0	0	0	0	0	0	0	0
590000	0	0	1	6	0	0	2	34	0	0
800000	1	10	0	0	0	0	0	0	1	16
8479899040	4	25	0	0	49	680	0	0	0	0
908040	0	11	0	21	0	4	0	0	0	0
8537100030	4	52	1	15	2	25	1	33	2	21
9024100000	0	59	0	176	0	34	0	314	0	8
9031100000	0	44	0	0	0	0	0	87	0	11
300000	0	28	0	0	0	0	0	40	0	0
9032810040	871	99	637	38	0	0	2730	268	17435	52

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
June 90

Metal Forming

	U.K.		USSR		Venezuela		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	3	14	0	0	0	0	0	0	5	22
8462100030	0	0	0	0	0	0	4	798	0	0
100050	12	1158	0	0	1	33	0	0	3	171
210080	5	200	0	0	0	0	1	274	2	123
290030	0	0	0	0	0	0	0	0	1	69
290040	0	0	0	0	0	0	0	0	1	9
290050	5	145	0	0	0	0	3	125	5	266
310080	1	31	0	0	0	0	0	0	0	0
390050	3	43	0	0	0	0	1	8	5	85
410080	1	59	0	0	0	0	0	0	0	0
490050	9	1634	0	0	0	0	3	36	5	140
910060	1	42	0	0	0	0	0	0	0	0
910090	0	0	2	76	0	0	0	0	4	324
990030	0	0	0	0	2	50	0	0	2	1460
990040	2	1161	0	0	0	0	0	0	1	153
990060	6	667	0	0	0	0	0	0	2	37
8463100080	0	0	0	0	0	0	6	66	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	1	6	0	0	2	54	2	20	4	88
900080	63	1976	0	0	1	10	27	538	48	880
9800000002	2	86	0	0	1	183	11	90	24	678
9900000002	410	122	5	7	7	6	58	50	179	102
Month Tot	524	7344	7	83	14	337	116	2004	291	4608
Y-T-D Tot	1337	23727	19	695	159	863	886	13436	1481	30329
NC YTD Tot	30	3368	1	136	3	79	10	1200	44	4416
C&F Month	771	10483	7	83	101	782	329	4655	1252	8415
C&F Y-T-D	3666	53731	34	3936	647	4522	2346	35123	5733	52559
C&F NC YTD*	153	23239	1	136	6	296	39	5977	119	12224

Other Manufacturing Technology

1000000000	0	5526	0	0	0	236	0	5826	0	7895
2000000000	0	689	0	0	0	418	0	1683	0	4620
2710003070	0	8	0	0	0	0	0	65	0	6229
8428900010	13	195	0	0	0	0	0	0	24	296
8431390090	0	361	0	0	0	24	0	50	0	1145
8456100000	0	0	0	0	0	0	2	81	8	210
200000	2	39	0	0	0	0	3	75	0	0
8477106010	0	0	0	0	0	0	0	0	1	27
106070	4	422	0	0	1	51	3	300	5	847
200010	0	0	0	0	1	13	0	0	0	0
200050	3	479	0	0	0	0	3	88	4	349
300000	5	12	0	0	0	0	0	0	5	90
400000	0	0	0	0	1	44	0	0	0	0
510010	5	169	0	0	0	0	0	0	9	211
510090	0	0	0	0	0	0	0	0	3	111
590000	8	161	0	0	0	0	1	43	3	30
800000	24	323	0	0	5	18	53	124	35	831
8479899040	7	139	0	0	0	0	79	1039	29	215
908040	0	163	0	0	0	0	0	62	0	98
8537100030	64	1358	0	0	0	0	14	204	16	268
9024100000	0	829	0	4	0	0	0	686	0	615
9031100000	0	67	0	0	0	0	0	296	0	280
300000	0	44	0	0	0	0	0	5	0	49
9032810040	5115	670	0	0	226	53	2318	140	3729	307

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Cutting and Metal Forming Machine Tool Totals
June 90

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
EUROPE						
Bulgaria	0	0	0	0	0	0
Czechoslovakia	0	0	0	0	0	0
Denmark	17	130	2	56	19	186
East Germany	0	0	0	0	0	0
Finland	3	10	4	3	7	13
Greece	16	11	8	194	24	205
Hungary	0	0	1	112	1	112
Iceland	0	0	0	0	0	0
Ireland	8	129	11	64	19	193
Luxembourg	0	0	5	5	5	5
Norway	4	57	0	0	4	57
Poland	0	0	0	0	0	0
Portugal	1	19	1	19	2	37
Romania	0	0	0	0	0	0
Sweden	14	786	2	28	16	813
Turkey	0	0	4	90	4	90
Yugoslavia	0	0	3	15	3	15
Oth Europe	1	53	0	0	1	53
TOTAL	1197	13329	1333	14669	2530	27999
NORTH AND CENTRAL AMERICA						
Bahamas	0	0	0	0	0	0
Barbados	0	0	0	0	0	0
Belize	1	3	0	0	1	3
Bermuda	0	0	0	0	0	0
Costa Rica	12	117	1	21	13	139
Dominican Rep	1	9	2	7	3	15
El Salvador	5	181	0	0	5	181
Guatemala	0	0	0	0	0	0
Haiti	0	0	0	0	0	0
Honduras	21	45	8	18	29	62
Jamaica	0	0	22	152	22	152
Panama	46	112	2	40	48	152
Trinidad	0	0	0	0	0	0
Oth N & C Am.	0	0	1	23	1	23
TOTAL	1767	13268	891	11117	2658	24385
SOUTH AMERICA						
Argentina	6	310	0	0	6	310
Bolivia	0	0	0	0	0	0
Chile	18	11	89	42	107	52
Colombia	6	88	5	312	11	399
Ecuador	0	0	4	4	4	4
Paraguay	0	0	0	0	0	0
Peru	86	56	3	98	89	154
Uruguay	0	0	0	0	0	0
Oth South Am.	1	48	0	0	1	48
TOTAL	225	2214	147	1245	372	3459
OCEANIA						
New Zealand	0	0	1	197	1	197
Oth Oceania	50	3	0	0	50	3
TOTAL	158	303	25	656	183	959

U.S. EXPORTS
Metal Cutting and Metal Forming Machine Tool Totals
June 90

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
ASIA						
Bangladesh	0	0	0	0	0	0
Hong Kong	511	636	57	284	568	920
Iran	0	0	0	0	0	0
Iraq	6	533	1	1082	7	1615
Israel	51	54	11	505	62	559
Jordan	0	0	0	0	0	0
Kuwait	0	0	1	153	1	153
Laos	0	0	0	0	0	0
Lebanon	0	0	0	0	0	0
Macao	0	0	0	0	0	0
Oman	1	6	0	0	1	6
Pakistan	8	223	0	0	8	223
Philippines	30	43	14	284	44	327
Qatar	0	0	0	0	0	0
Saudi Arabia	15	47	15	536	30	583
Sri Lanka	0	0	0	0	0	0
Syria	0	0	0	0	0	0
United Arab Emr	8	48	0	0	8	48
Vietnam	0	0	0	0	0	0
Oth Asia	0	0	0	0	0	0
TOTAL	1992	14851	629	14709	2621	29559
AFRICA						
Algeria	0	0	0	0	0	0
Botswana	0	0	0	0	0	0
Egypt	1	14	6	143	7	158
Ethiopia	0	0	0	0	0	0
Gabon	0	0	0	0	0	0
Ghana	0	0	0	0	0	0
Guinea	0	0	0	0	0	0
Kenya	0	0	0	0	0	0
Malawi	0	0	0	0	0	0
Mauritius	0	0	0	0	0	0
Morocco	0	0	0	0	0	0
Niger	0	0	0	0	0	0
Nigeria	0	0	0	0	0	0
South Africa	13	27	7	123	20	150
Sudan	0	0	0	0	0	0
Swaziland	0	0	0	0	0	0
Tunisia	0	0	0	0	0	0
Zaire	0	0	0	0	0	0
Zambia	0	0	0	0	0	0
Zimbabwe	0	0	0	0	0	0
Oth Africa	0	0	0	0	0	0
TOTAL	14	41	13	267	27	308

Note: Region totals include top countries detailed by product as well as countries listed above.

Cutting Section Notes:
Total for Metal Cutting and Metal Forming appears in Metal Forming Section.
Product Code 900000001, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.
n.e.c. - Not elsewhere classified.
* "NC Y-T-D Cutting Total" does not include code 8456300000.

U.S. EXPORTS

Metal Cutting Machine Tools - January 90 - June 90

RELEASED: August 29, 1990

		TOTAL YTD UNITS	$000
8456300000	Electro-discharge machines	40	2893
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm(26")	50	8768
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm(26")	10	2043
100035	Horiz. mach. ctrs., ATC	35	9690
100045	Mach. ctrs., n.e.c.	142	16952
200010	Unit construction mach. (single station transfer), NC	0	0
200090	Unit construction mach. (single station transfer), non-NC	7	3468
300010	Multi-station transfer machines, NC	7	11259
300090	Multi-station transfer machines, non-NC	22	4138
8458110010	Horiz. lathes, multiple spindle, NC	15	3582
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	181	13796
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	30	4048
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	14	4634
190030	Horiz. engine or toolroom lathes, non-NC	74	1460
190050	Automatic bar and/or chucking mach., single spindle, non-NC	6	239
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	27	1233
190090	Horiz. lathes, n.e.c., non-NC	213	2670
911060	Vertical turret lathes, multiple spindle, NC	1	63
911080	Vertical turret lathes, n.e.c., NC	2	316
915050	Vertical lathes, excl. VTL's, mult. spindle, NC	14	657
915070	Vertical lathes, excl. VTL's, n.e.c., NC	14	1650
991050	Vertical turret lathes, non-NC	23	572
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	49	3173
8459100000	Way-type unit head machines	14	1957
210080	Other drilling machines, NC	54	4675
290040	Drilling machines, multiple spindle, non-NC	14	715
290050	Drilling machines, radial, non-NC	17	145
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	52	1002
290090	Drilling machines, n.e.c., non-NC	443	2733
310010	Boring-milling mach., horiz. spind., table, excl. planer, NC	3	1569
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	3	1481
310070	Boring-milling mach., n.e.c., NC	8	385
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	2	250
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	21	799
400040	Boring machines, vertical, NC	2	899
400050	Boring machines, vertical, non-NC	29	491
400070	Boring machines, n.e.c., NC	7	2536
400080	Boring machines, n.e.c., non-NC	18	849
510080	Milling machines, knee type, NC	11	713
590030	Milling machines, knee type, non-NC	49	1549
610080	Milling machines, excl. knee type, n.e.c., NC	33	9853
690050	Milling machines, profile, dup., or die sinking, non-NC	22	511
690070	Milling machines, bed type, non-NC	1	50
690090	Milling machines, n.e.c., non-NC	119	4782
700020	Threading or tapping machines, n.e.c., NC	16	749
700080	Threading or tapping machines, n.e.c., non-NC	235	2484
8460110080	Flat surface grinding mach., NC	35	3284
190010	Flat surface grinding mach., recip.-table type, non-NC	29	565
190050	Flat surface grinding mach., n.e.c., non-NC	22	3635
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	49	15041
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	16	2206
290030	Grinding mach., internal cylindrical, non-NC	24	2455
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	182	7517
310080	Sharpening machines (tool & cutter grinding), NC	26	1646
390050	Sharpening machines (tool & cutter grinding), non-NC	461	9421
400060	Honing or lapping machines, NC	0	0
400080	Honing or lapping machines, non-NC	351	8240
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	6	765
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	563	9342
8461100060	Planing machines, NC	1	111
100080	Planing machines, non-NC	177	5304
200010	Shaping or slotting machines, NC	3	87
200090	Shaping or slotting machines, non-NC	23	581
300060	Broaching machines, NC	10	1139
300080	Broaching machines, non-NC	18	1245
401050	Gear hobbers	12	2040
401070	Gear shapers	18	3684
401090	Gear cutting machines, n.e.c.	48	15581
405060	Gear grinding or finishing machines	42	3397
500050	Sawing or cutting-off machines, NC	83	2576
500090	Sawing or cutting-off machines, non-NC	758	9810
9000000001	Metal cutting machine tools, n.e.c.	757	14846
9800000001	Used or rebuilt machine tools	2473	33122
9900000001	Machine tools valued at less than $2,500	18684	11198
	Y-T-D Cutting Total	27020	307315
	NC Y-T-D Cutting Total*	994	131509

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - January 90 - June 90

	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	17	1410
8457100015	0	0	0	0	11	1329	0	0	26	5079
100025	0	0	0	0	0	0	0	0	8	1798
100035	0	0	0	0	14	2964	0	0	7	1388
100045	0	0	0	0	27	3677	1	297	23	2172
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	2	1860
300090	0	0	0	0	0	0	0	0	0	0
8458110010	1	1550	0	0	0	0	0	0	9	1540
110030	5	574	0	0	41	3202	0	0	11	840
110050	0	0	0	0	13	1351	0	0	10	1449
110090	0	0	0	0	0	0	2	575	12	4059
190030	1	29	0	0	0	0	0	0	7	322
190050	0	0	0	0	0	0	0	0	4	154
190070	0	0	0	0	0	0	0	0	1	57
190090	31	83	0	0	0	0	0	0	40	793
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	1	23	1	23
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	9	174
995090	2	61	0	0	0	0	0	0	12	346
8459100000	0	0	0	0	1	181	2	151	0	0
210080	1	33	0	0	0	0	2	71	13	1955
290040	0	0	0	0	0	0	0	0	4	139
290050	0	0	0	0	0	0	0	0	14	98
290070	0	0	0	0	0	0	0	0	27	255
290090	10	48	0	0	0	0	14	119	192	1053
310010	0	0	0	0	0	0	2	759	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	1	29
390040	2	250	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	4	334
400040	0	0	0	0	0	0	0	0	2	899
400050	7	119	0	0	0	0	0	0	10	186
400070	0	0	0	0	0	0	0	0	7	2536
400080	0	0	0	0	0	0	0	0	5	368
510080	1	55	0	0	0	0	0	0	7	438
590030	12	415	0	0	0	0	0	0	21	542
610080	2	2471	0	0	0	0	0	0	5	714
690050	0	0	0	0	0	0	1	16	0	0
690070	0	0	0	0	0	0	0	0	1	50
690090	0	0	0	0	0	0	4	793	16	261
700020	1	17	1	23	3	76	0	0	2	92
700080	4	79	0	0	8	657	0	0	66	685
8460110080	0	0	0	0	0	0	2	44	4	1178
190010	0	0	0	0	0	0	0	0	10	288
190050	4	861	0	0	0	0	1	131	4	1013
210080	0	0	0	0	0	0	1	196	16	7061
290010	0	0	0	0	0	0	0	0	3	190
290030	0	0	0	0	0	0	0	0	1	20
290050	0	0	0	0	0	0	19	758	36	1379
310080	2	57	0	0	0	0	0	0	1	202
390050	1	46	0	0	1	9	4	29	131	5715
400060	0	0	0	0	0	0	0	0	0	0
400080	10	98	4	51	1	8	1	6	32	636
900060	0	0	0	0	0	0	0	0	2	436
900080	13	147	2	17	0	0	2	187	130	1578
8461100060	0	0	0	0	0	0	0	0	1	111
100080	1	17	1	40	0	0	6	17	0	0
200010	0	0	0	0	0	0	0	0	1	48
200090	0	0	0	0	0	0	0	0	4	82
300060	0	0	0	0	0	0	0	0	2	712
300080	3	50	0	0	0	0	0	0	9	370
401050	0	0	0	0	0	0	0	0	1	63
401070	0	0	0	0	0	0	4	1778	11	1416
401090	2	1153	0	0	0	0	3	1453	1	487
405060	0	0	0	0	0	0	0	0	3	1020
500050	0	0	0	0	0	0	0	0	56	2103
500090	39	360	0	0	9	170	5	95	167	1794
9000000001	0	0	0	0	0	0	6	22	145	1055
9800000001	66	945	2	9	8	287	134	1150	362	4224
9900000001	904	489	75	49	199	258	266	29	1496	1625
Y-T-D Tot	1125	10007	85	190	336	14171	483	8699	3225	68903
NC YTD Tot*	13	4758	1	23	109	12600	11	1965	236	38865

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - January 90 - June 90

	China		France		India		Indonesia		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	1	35
8457100015	0	0	0	0	0	0	0	0	1	140
100025	0	0	0	0	0	0	0	0	0	0
100035	1	617	0	0	0	0	0	0	0	0
100045	8	3824	1	202	1	223	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	1	89	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	2	200
8458110010	0	0	1	66	0	0	0	0	0	0
110030	2	217	12	1015	0	0	0	0	0	0
110050	0	0	2	388	2	498	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	1	5	6	91	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	10	213
190090	0	0	0	0	0	0	0	0	1	7
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	2	867	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	1	25	10	497
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	1	48	0	0	0	0	1	39
290040	0	0	0	0	4	169	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	1	4	8	47	0	0	4	144
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	1	18	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	1	25	0	0	1	19
610080	13	2138	2	166	1	716	0	0	0	0
690050	0	0	0	0	1	6	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	1	13	0	0	0	0	0	0	1	316
700020	0	0	0	0	1	341	0	0	0	0
700080	0	0	1	15	4	17	1	5	1	126
8460110080	1	787	0	0	0	0	0	0	0	0
190010	0	0	0	0	3	31	0	0	0	0
190050	1	186	0	0	0	0	1	71	6	808
210080	0	0	3	584	1	359	0	0	0	0
290010	5	830	0	0	0	0	0	0	0	0
290030	2	73	0	0	8	1948	0	0	1	27
290050	2	342	0	0	14	501	0	0	7	444
310080	0	0	1	32	0	0	0	0	0	0
390050	51	1100	1	44	4	113	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	13	261	10	65	2	174	0	0	12	145
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	12	88	5	37	0	0	35	342
8461100060	0	0	0	0	0	0	0	0	0	0
100080	2	62	0	0	0	0	0	0	1	22
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	1	16	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	1	445	1	228	0	0	0	0	0	0
401050	0	0	0	0	2	840	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	1	600	1	547	0	0	3	1244
405060	0	0	0	0	0	0	0	0	1	920
500050	0	0	0	0	0	0	0	0	0	0
500090	3	8	8	138	5	1371	1	9	16	256
9000000001	1	15	21	499	2	27	0	0	39	1545
9800000001	33	983	19	237	78	1144	0	0	29	342
9900000001	12	8	581	278	342	90	60	20	736	301
Y-T-D Tot	153	11914	686	4877	494	10124	64	131	919	8129
NC YTD Tot*	25	7583	44	2999	10	3031	0	0	39	1698

Please see notes on last page of the metal forming section.

U.S. EXPORTS

Metal Cutting Machine Tools - January 90 - June 90

	Japan		Korea		Malaysia		Mexico		Netherlands	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	10	647	0	0	0	0	5	214	1	33
8457100015	0	0	2	279	0	0	3	601	0	0
100025	0	0	1	120	0	0	0	0	0	0
100035	0	0	2	982	0	0	0	0	0	0
100045	1	36	27	2922	0	0	26	1806	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	3	415	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	18	2178	0	0
8458110010	0	0	1	90	0	0	2	246	0	0
110030	10	831	5	343	0	0	3	187	3	160
110050	0	0	1	64	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	1	25	0	0	0	0	14	245	0	0
190050	0	0	0	0	0	0	1	24	0	0
190070	11	319	1	340	0	0	0	0	0	0
190090	11	130	4	22	0	0	93	1249	0	0
911060	0	0	0	0	0	0	1	63	0	0
911080	0	0	0	0	0	0	2	316	0	0
915050	0	0	0	0	0	0	11	501	0	0
915070	1	25	0	0	0	0	11	759	0	0
991050	0	0	0	0	0	0	4	79	0	0
995090	0	0	0	0	0	0	8	272	0	0
8459100000	0	0	4	345	0	0	2	266	0	0
210080	0	0	3	130	0	0	9	488	0	0
290040	0	0	5	240	0	0	1	167	0	0
290050	0	0	0	0	0	0	3	47	0	0
290070	0	0	0	0	0	0	17	109	0	0
290090	21	220	22	223	0	0	52	266	1	6
310010	0	0	1	809	0	0	0	0	0	0
310040	0	0	0	0	0	0	2	207	0	0
310070	0	0	2	124	0	0	1	32	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	1	7	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	7	103	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	3	128	0	0	9	327	0	0
510080	0	0	0	0	0	0	1	136	0	0
590030	1	126	0	0	2	67	1	26	0	0
610080	0	0	3	2724	0	0	3	102	1	542
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	2	31	7	638	0	0	83	2439	0	0
700020	0	0	1	23	0	0	0	0	0	0
700080	0	0	0	0	0	0	31	100	3	80
8460110080	4	267	0	0	0	0	19	845	2	64
190010	0	0	0	0	0	0	7	113	0	0
190050	0	0	1	58	0	0	0	0	0	0
210080	5	1367	2	419	0	0	3	494	0	0
290010	1	53	2	825	0	0	0	0	1	64
290030	1	55	0	0	0	0	2	38	0	0
290050	4	469	0	0	0	0	46	967	6	208
310080	0	0	0	0	0	0	14	459	0	0
390050	84	552	10	450	20	117	8	135	6	41
400060	0	0	0	0	0	0	0	0	0	0
400080	7	92	69	1371	2	27	11	180	4	61
900060	0	0	0	0	0	0	1	44	0	0
900080	69	2004	56	636	1	4	68	1777	2	17
8461100060	0	0	0	0	0	0	0	0	0	0
100080	7	923	37	932	23	200	74	576	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	1	168	0	0	5	99	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	4	152	0	0
401050	4	213	2	115	0	0	0	0	0	0
401070	0	0	0	0	0	0	2	452	0	0
401090	9	1062	11	5949	0	0	6	496	0	0
405060	2	183	16	694	0	0	2	82	0	0
500050	0	0	0	0	0	0	7	101	2	44
500090	78	852	37	437	4	36	82	985	113	561
9000000001	30	2680	13	736	0	0	47	1222	5	90
9800000001	73	1656	56	3474	1	4	656	4123	52	504
9900000001	1612	734	481	311	131	187	3700	1537	97	54
Y-T-D Tot	2059	15550	892	27536	184	643	5189	28439	299	2527
NC YTD Tot*	45	5033	51	9030	0	0	119	7388	9	860

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Metal Cutting Machine Tools - January 90 - June 90

	Singapore		Spain		Switzerland		Taiwan		Thailand	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	1	130	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	7	476	1	91
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	1	55	0	0
190090	1	13	0	0	1	170	4	25	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	1	18
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	2	663	0	0	0	0	0	0
210080	1	38	0	0	0	0	7	468	1	31
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	1	68	0	0	8	37	0	0	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	11	66	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	2	62	0	0	0	0	1	47	0	0
610080	1	55	0	0	1	125	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	2	8	0	0	0	0	0	0	0	0
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	2	25
190050	0	0	0	0	0	0	2	115	0	0
210080	0	0	0	0	1	294	0	0	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	2	178	3	222	4	155	22	734	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	16	159	2	7	0	0	4	59	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	7	80	15	180	14	165	5	31
900060	0	0	0	0	0	0	0	0	0	0
900080	8	85	13	191	16	160	13	96	0	0
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	1	10	0	0	4	705
200010	0	0	0	0	0	0	0	0	0	0
200090	7	27	0	0	0	0	1	7	1	33
300060	8	427	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	1	575	0	0	0	0
405060	0	0	0	0	11	328	1	10	0	0
500050	0	0	16	184	0	0	0	0	0	0
500090	0	0	5	32	1	18	16	288	1	5
9000000001	97	1606	9	818	37	327	44	509	0	0
9800000001	37	1196	50	383	86	308	13	113	15	80
9900000001	697	351	97	96	442	277	290	232	91	125
Y-T-D Tot	881	4404	204	2676	636	3029	440	3399	122	1146
NC YTD Tot*	10	520	24	998	2	419	14	944	2	122

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U.S. EXPORTS

Metal Cutting Machine Tools - January 90 - June 90

	U.K.		USSR		Venezuela		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	1	100	0	0	0	0	3	148	1	176
8457100015	2	459	0	0	0	0	0	0	5	881
100025	0	0	0	0	0	0	0	0	1	125
100035	4	1674	0	0	0	0	4	1250	3	816
100045	7	493	0	0	2	107	4	262	6	365
200010	0	0	0	0	0	0	0	0	0	0
200090	1	464	0	0	0	0	2	2500	0	0
300010	5	9400	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	2	1760	0	0
8458110010	0	0	0	0	0	0	0	0	1	90
110030	77	5385	0	0	0	0	8	682	4	362
110050	1	80	0	0	0	0	0	0	1	217
110090	0	0	0	0	0	0	0	0	0	0
190030	38	669	0	0	3	43	1	15	2	14
190050	1	61	0	0	0	0	0	0	0	0
190070	1	94	0	0	0	0	2	156	0	0
190090	12	91	0	0	1	3	2	9	12	74
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	1	110	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	5	163	0	0	0	0	0	0	4	137
995090	13	421	0	0	2	1509	0	0	1	41
8459100000	0	0	0	0	2	208	0	0	1	142
210080	3	159	0	0	0	0	3	180	9	1035
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	6	383	0	0	0	0	0	0	2	255
290090	4	15	0	0	15	69	6	26	84	389
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	1	1274
310070	0	0	0	0	0	0	0	0	4	199
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	5	393	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	4	65
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	1	26
510080	0	0	0	0	0	0	0	0	2	84
590030	2	70	0	0	0	0	0	0	5	151
610080	0	0	0	0	0	0	1	100	0	0
690050	0	0	0	0	0	0	20	490	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	3	271	0	0	1	14	1	5	0	0
700020	1	26	0	0	0	0	0	0	6	150
700080	9	204	0	0	41	108	3	9	61	391
8460110080	0	0	0	0	0	0	0	0	3	99
190010	0	0	0	0	1	16	1	11	5	80
190050	2	393	0	0	0	0	0	0	0	0
210080	5	1426	0	0	0	0	6	1553	6	1288
290010	3	189	0	0	0	0	0	0	1	55
290030	0	0	0	0	0	0	9	293	0	0
290050	6	212	0	0	0	0	9	568	2	379
310080	0	0	0	0	0	0	1	713	7	183
390050	45	290	0	0	0	0	36	244	37	310
400060	0	0	0	0	0	0	0	0	0	0
400080	12	222	14	3208	1	5	50	633	55	542
900060	0	0	0	0	0	0	0	0	3	284
900080	24	664	0	0	17	165	29	615	48	532
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	1	50	8	714	11	1036
200010	0	0	0	0	0	0	2	39	0	0
200090	1	8	0	0	0	0	0	0	2	140
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	1	301	0	0	0	0	2	509	0	0
401070	0	0	0	0	0	0	0	0	1	38
401090	0	0	0	0	5	405	5	1611	0	0
405060	3	34	0	0	0	0	1	70	2	57
500050	2	144	0	0	0	0	0	0	0	0
500090	70	830	1	34	0	0	31	586	66	943
9000000001	41	2080	0	0	3	35	9	87	208	1494
9800000001	62	1897	0	0	12	249	218	5430	411	4384
9900000001	1856	633	0	0	375	170	981	421	3163	2926
Y-T-D Tot	2329	30004	15	3241	488	3659	1460	21687	4252	22231
NC YTD Tot*	123	19871	0	0	3	217	29	4778	75	7808

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Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
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RELEASED: August 29, 1990

Metal Forming Machine Tools		TOTAL YTD UNITS	$000
8454300010	Die casting machines	203	5593
8462100030	Headers and upsetters, including cold headers	30	9556
100050	Forging or die stamping machines, and hammers, n.e.c.	176	14554
210080	Bending, folding, straight. or flat. mach., incl presses, NC	158	12616
290030	Press brakes, non-NC	109	2674
290040	Bending rolls, non-NC	43	920
290050	Bending, folding, straight., or flat., n.e.c., non-NC	524	13420
310080	Shearing machines, NC	44	4545
390050	Shearing machines, non-NC	202	4261
410080	Punching or notching mach., incl. comb. punch & shear, NC	102	15536
490050	Punching or notching mach., incl. comb. punch & sh., non-NC	486	13719
910060	Hydraulic presses, NC	38	2637
910090	Hydraulic presses, non-NC	383	17521
990030	Presses, n.e.c., NC	78	8480
990040	Presses, mechanical, non-NC	53	6257
990060	Presses, n.e.c., non-NC	742	23851
8463100080	Draw benches for bars, tubes, profiles, wire or the like	91	2496
200080	Thread rolling machines	27	1391
300080	Machines for working wire	351	11171
900080	Metal forming machine tools, n.e.c.	1036	31500
9800000002	Used or rebuilt machine tools	1848	31671
9900000002	Machine tools valued at less than $2,500	7157	5322
	Y-T-D Forming Total	13881	239694
	NC Y-T-D Forming Total	420	43814
	Cutting and Forming Totals:		
	Y-T-D Total	40901	547009
	NC Y-T-D Total*	1414	175323

Other Manufacturing Technology		TOTAL YTD UNITS	$000
1000000000	Machine tool parts and accessories	0	364293
2000000000	Parts for working rubber or plastics - heading 8477	0	146116
2710003070	Quenching or cutting oils	0	15366
8428900010	Industrial robots for lifting, handling, loading or unload	208	3597
8431390090	Parts industrial robots, handling and loading - heading 8428	0	37082
8456100000	Laser, light or photon beam for working any material	406	19700
200000	Ultrasonic process for working any material	55	1295
8477106010	Injection molding mach., for rubber or oth. thermosetting	118	7862
106070	Injection molding mach., for thermoplastics	196	24548
200010	Extruders for rubber or other thermosetting materials	204	8157
200050	Extruders for processing thermoplastics	425	19574
300000	Blow molding machines	335	25756
400000	Vacuum-molding and other thermoforming machines	4185	7199
510010	Machines for molding or retreading pneumatic tires	466	9498
510090	Machines for molding or otherwise forming inner tubes	190	23836
590000	Machines for molding or otherwise forming n.e.c.	649	12256
800000	Machines for working rubber or plastics n.e.c.	2046	53885
8479899040	Industrial robots, n.e.c.	3019	30138
908040	Industrial robot parts	0	16948
8537100030	Numerical controls for controlling machine tools	1125	16331
9024100000	Machines and appliances for testing metals	0	36373
9031100000	Machines for balancing mechanical parts	0	16472
300000	Profile projectors	0	4518
9032810040	Industrial process control instr., hydraulic or pneumatic	323463	19764

Note: Product code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "NC Y-T-D Total" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.
n.e.c. - Not elsewhere classified.

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Metal Forming Machine Tools, Machine Tool Totals and other Manufacturing Technology
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Metal Forming

	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	9	21	7	40	2	22	1	13	7	2184
8462100030	0	0	0	0	0	0	0	0	2	217
100050	1	67	0	0	1	38	1	51	17	1979
210080	18	1544	0	0	0	0	4	149	35	4242
290030	0	0	0	0	0	0	6	251	80	1578
290040	1	8	0	0	1	29	0	0	15	243
290050	7	119	0	0	0	0	2	22	182	2620
310080	2	146	0	0	0	0	0	0	10	1882
390050	7	106	0	0	9	146	0	0	55	1116
410080	1	34	0	0	0	0	3	339	20	2346
490050	11	77	2	960	15	132	4	56	105	1364
910060	1	10	0	0	0	0	1	14	3	840
910090	4	69	0	0	4	1043	0	0	18	1202
990030	0	0	0	0	0	0	0	0	15	1758
990040	0	0	1	566	0	0	0	0	9	343
990060	10	392	0	0	0	0	30	536	74	1169
8463100080	5	65	0	0	7	97	3	53	14	433
200080	0	0	0	0	0	0	0	0	6	113
300080	4	149	2	42	0	0	30	714	37	950
900080	9	213	1	7	0	0	10	256	100	1530
9800000002	5	180	0	0	4	171	7	181	414	6580
9900000002	121	93	24	17	471	417	211	113	1017	948
Y-T-D Tot	216	3293	37	1632	514	2094	313	2746	2235	35638
NC YTD Tot	22	1734	0	0	0	0	8	501	83	11068
C&F YTD	1341	13300	122	1823	850	16265	796	11445	5460	104542
C&F NC YTD*	35	6491	1	23	109	12600	19	2466	319	49934

Other Manufacturing Technology

1000000000	0	7266	0	959	0	4579	0	5288	0	84447
2000000000	0	4932	0	589	0	2841	0	3032	0	39621
2710003070	0	144	0	5	0	5	0	25	0	467
8428900010	1	11	0	0	0	0	0	0	34	981
8431390090	0	1959	0	86	0	338	0	1954	0	7839
8456100000	1	67	0	0	6	239	0	0	15	1374
200000	0	0	0	0	0	0	0	0	5	84
8477106010	1	38	0	0	0	0	32	1324	6	340
106070	4	177	5	392	0	0	6	1192	57	8911
200010	4	102	0	0	0	0	0	0	123	4111
200050	4	727	0	0	1	200	16	1358	83	2438
300000	40	328	0	0	2	215	8	2680	10	2417
400000	2	49	0	0	6	51	14	440	37	2007
510010	6	1305	0	0	3	34	4	172	25	2315
510090	2	190	0	0	0	0	0	0	0	0
590000	5	81	3	85	42	658	2	76	48	2200
800000	27	813	3	44	35	546	11	106	564	18968
8479899040	10	53	0	0	5	85	2	76	1937	15957
908040	0	35	0	16	0	50	0	0	0	8216
8537100030	15	152	1	12	9	139	3	55	61	818
9024100000	0	379	0	89	0	204	0	813	0	4483
9031100000	0	203	0	0	0	129	0	253	0	5439
300000	0	27	0	0	0	0	0	233	0	309
9032810040	13011	894	8499	429	8092	414	119	16	11984	798

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8465300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and other Manufacturing Technology
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Metal Forming

	China		France		India		Indonesia		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	35	1347	16	144	37	260	4	17	0	0
8462100030	0	0	2	1657	0	0	0	0	2	514
100050	0	0	0	0	2	105	0	0	3	777
210080	0	0	4	169	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290040	1	32	1	47	0	0	0	0	8	78
290050	6	328	25	530	6	883	1	7	2	12
310080	0	0	0	0	0	0	0	0	0	0
390050	4	133	18	286	0	0	0	0	0	0
410080	2	2624	19	2568	0	0	0	0	0	0
490050	55	1299	5	180	4	45	1	7	26	478
910060	1	5	0	0	0	0	0	0	0	0
910090	20	679	7	155	0	0	1	20	4	104
990030	0	0	13	1294	0	0	0	0	3	589
990040	6	651	2	719	0	0	0	0	0	0
990060	0	0	2	13	3	66	0	0	6	149
8463100080	0	0	6	176	2	83	0	0	0	0
200080	1	20	0	0	2	51	0	0	0	0
300080	4	559	16	221	0	0	0	0	40	602
900080	9	1491	12	836	31	398	0	0	13	1955
9800000002	117	1261	37	643	83	3343	0	0	12	362
9900000002	67	37	149	105	110	68	0	0	61	40
Y-T-D Tot	328	10467	334	9743	280	5303	7	51	180	5660
NC YTD Tot	3	2629	36	4031	0	0	0	0	3	589
C&F YTD	481	22381	1020	14620	774	15427	71	182	1099	13789
C&F NC YTD*	28	10212	80	7030	10	3031	0	0	42	2287

Other Manufacturing Technology

1000000000	0	2071	0	13018	0	2268	0	932	0	8676
2000000000	0	3102	0	2166	0	2922	0	230	0	1788
2710003070	0	14	0	30	0	0	0	264	0	18
8428900010	18	178	36	887	0	0	0	0	14	165
8431390090	0	428	0	821	0	255	0	18	0	245
8456100000	15	506	5	808	0	0	0	0	26	932
200000	0	0	2	27	0	0	0	0	2	34
8477106010	0	0	0	0	0	0	0	0	5	294
106070	0	0	3	146	0	0	0	0	1	104
200010	0	0	0	0	0	0	0	0	0	0
200050	38	1081	9	279	14	1635	1	72	11	337
300000	0	0	4	237	0	0	0	0	3	17
400000	0	0	0	0	0	0	0	0	0	0
510010	0	0	2	47	1	24	51	55	9	376
510090	0	0	1	660	3	840	2	17	0	0
590000	0	0	33	493	31	440	0	0	21	682
800000	58	3722	4	214	66	1271	6	81	10	893
8479899040	1	58	56	486	1	9	0	0	94	1479
908040	0	43	0	445	0	5	0	0	0	165
8537100030	0	0	154	2072	3	41	0	0	38	561
9024100000	0	1693	0	1029	0	177	0	371	0	740
9031100000	0	94	0	14	0	847	0	19	0	75
300000	0	0	0	502	0	0	0	0	0	147
9032810040	3691	210	14613	848	979	71	94	5	20633	1476

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8465300000.
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Metal Forming

	Japan		Korea		Malaysia		Mexico		Netherlands	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	1	50	6	616	6	27	8	96	3	48
8462100030	10	3855	1	556	0	0	0	0	0	0
100050	22	1690	14	770	1	107	18	990	0	0
210080	3	1092	13	977	2	65	30	1828	2	180
290030	1	4	0	0	0	0	8	241	0	0
290040	0	0	0	0	0	0	8	234	0	0
290050	23	525	32	763	8	42	67	2310	7	314
310080	9	970	3	700	0	0	7	311	11	444
390050	0	0	5	88	2	36	43	734	0	0
410080	0	0	1	95	0	0	13	1251	13	1728
490050	62	1540	4	59	2	11	48	821	2	7
910060	2	92	3	141	0	0	14	668	0	0
910090	5	133	19	4002	0	0	198	4033	4	157
990030	4	678	12	760	6	136	0	0	0	0
990040	2	261	1	45	0	0	1	16	4	252
990060	60	3396	23	3896	0	0	335	3760	29	328
8463100080	0	0	1	102	0	0	10	232	0	0
200080	0	0	0	0	0	0	4	664	1	132
300080	10	244	9	574	2	53	52	979	3	122
900080	56	2863	24	721	33	2583	178	3120	15	232
9800000002	37	756	91	5107	4	69	511	5304	0	0
9900000002	741	311	144	83	0	0	1526	1401	61	45
Y-T-D Tot	1048	18460	406	20054	66	3129	3079	28993	155	3990
NC YTD Tot	18	2832	32	2672	8	201	64	4058	26	2352
C&F YTD	3107	34010	1298	47589	250	3772	8268	57432	454	6517
C&F NC YTD*	63	7865	83	11701	8	201	183	11446	35	3211

Other Manufacturing Technology

1000000000	0	31897	0	12329	0	1868	0	24342	0	3152
2000000000	0	4837	0	4404	0	1312	0	13417	0	1891
2710003070	0	205	0	49	0	10	0	218	0	92
8428900010	5	84	3	49	3	4	7	43	0	0
8431390090	0	967	0	646	0	39	0	4532	0	568
8456100000	161	7050	7	237	17	519	1	27	12	592
200000	1	13	0	0	0	0	1	33	0	0
8477106010	0	0	5	496	0	0	61	4886	0	0
106070	7	1699	3	224	0	0	51	5820	1	48
200010	0	0	0	0	0	0	33	2117	0	0
200050	22	2214	51	797	2	44	69	1946	2	74
300000	3	3790	33	3444	0	0	85	5770	0	0
400000	104	683	35	1849	3	16	3896	1828	0	0
510010	25	584	0	0	5	136	19	310	0	0
510090	6	262	19	2841	4	16	64	402	2	11
590000	105	841	30	463	0	0	107	1268	7	122
800000	89	2552	97	3486	7	48	454	9042	111	697
8479899040	44	488	58	484	7	112	50	546	7	93
908040	0	754	0	3241	0	13	0	18	0	88
8537100030	26	413	41	524	3	37	4	87	2	19
9024100000	0	5961	0	4955	0	180	0	792	0	290
9031100000	0	126	0	5260	0	0	0	1738	0	8
300000	0	1898	0	715	0	0	0	51	0	18
9032810040	12845	1006	18271	888	102	5	8800	694	49187	2573

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
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Metal Forming

	Singapore		Spain		Switzerland		Taiwan		Thailand	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	1	3	0	0	0	0	0	0	7	25
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	5	462	2	105	1	400	2	101
210080	3	151	1	31	1	30	9	425	0	0
290030	0	0	7	294	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	7	311	0	0	5	93	24	1029	12	341
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	2	286	2	28	0	0
410080	1	110	0	0	0	0	6	454	0	0
490050	5	612	2	1085	1	9	5	332	11	104
910060	0	0	2	83	0	0	0	0	1	68
910090	1	17	8	128	1	15	3	69	2	1472
990030	0	0	0	0	0	0	5	596	0	0
990040	2	60	0	0	1	120	16	749	0	0
990060	3	70	0	0	3	531	67	2065	0	0
8463100080	0	0	5	124	0	0	1	426	0	0
200080	0	0	9	216	0	0	0	0	0	0
300080	4	118	10	300	1	27	1	25	7	253
900080	7	174	1	169	0	0	15	1947	0	0
9800000002	29	1475	20	422	1	20	32	425	8	56
9900000002	189	171	8	7	170	145	32	16	14	8
Y-T-D Tot	252	3272	78	3322	188	1381	219	8987	64	2428
NC YTD Tot	4	261	3	115	1	30	20	1475	1	68
C&F YTD	1133	7676	282	5998	824	4409	659	12387	186	3574
C&F NC YTD*	14	781	27	1113	3	449	34	2419	3	190

Other Manufacturing Technology

1000000000	0	6369	0	3417	0	3424	0	6188	0	1935
2000000000	0	1429	0	2202	0	991	0	2347	0	836
2710003070	0	196	0	29	0	19	0	617	0	43
8428900010	18	77	0	0	1	115	0	0	0	0
8431390090	0	1009	0	10	0	139	0	396	0	0
8456100000	4	99	9	203	2	165	23	3181	0	0
200000	0	0	9	237	0	0	0	0	0	0
8477106010	2	150	0	0	0	0	0	0	0	0
106070	2	156	0	0	4	170	1	550	0	0
200010	0	0	0	0	0	0	6	836	0	0
200050	0	0	0	0	0	0	1	183	0	0
300000	0	0	10	977	6	424	28	804	39	665
400000	1	10	1	9	9	14	3	21	0	0
510010	2	32	20	578	2	3	1	14	0	0
510090	0	0	0	0	1	24	20	488	0	0
590000	3	46	10	98	30	302	19	785	0	0
800000	15	409	2	497	32	370	6	180	2	49
8479899040	43	260	11	352	117	1380	2	159	0	0
90804	0	107	0	119	0	199	0	18	0	0
853710003	22	308	5	46	15	210	7	119	8	87
9024100000	0	361	0	1026	0	803	0	785	0	16
9031100000	0	248	0	27	0	5	0	218	0	14
300000	0	101	0	21	0	7	0	172	0	0
9032810040	6768	989	5576	301	804	49	6210	929	47828	283

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
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U.S. EXPORTS

Metal Forming Machine Tools, Machine Tool Totals and other Manufacturing Technology

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Metal Forming

	U.K.		USSR		Venezuela		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	17	216	0	0	0	0	0	0	36	464
8462100030	0	0	0	0	0	0	12	1698	1	1060
100050	64	5534	0	0	1	33	0	0	21	1345
210080	10	379	0	0	1	28	3	402	19	924
290030	0	0	0	0	0	0	0	0	7	306
290040	0	0	0	0	2	70	0	0	6	179
290050	11	237	0	0	1	35	46	1508	50	1390
310080	2	93	0	0	0	0	0	0	0	0
390050	31	800	0	0	0	0	7	95	17	407
410080	8	1992	0	0	0	0	7	798	8	1199
490050	43	2175	2	132	0	0	13	237	58	1997
910060	7	698	0	0	0	0	0	0	3	18
910090	24	508	11	419	1	7	8	249	40	3039
990030	3	206	1	136	2	50	0	0	14	2276
990040	4	1780	0	0	0	0	1	215	3	481
990060	52	1799	0	0	4	110	19	2543	22	3028
8463100080	12	338	0	0	0	0	19	211	6	156
200080	1	104	0	0	0	0	1	48	2	43
300080	18	338	0	0	5	110	52	1961	44	2829
900080	252	5653	0	0	2	25	90	1915	178	5411
9800000002	45	489	0	0	5	328	59	1197	327	3302
9900000002	733	386	5	7	135	66	549	358	619	478
Y-T-D Tot	1337	23727	19	695	159	863	886	13436	1481	30329
NC YTD Tot	30	3368	1	136	3	79	10	1200	44	4416
C&F YTD	3666	53731	34	3936	647	4522	2346	35123	5733	52559
C&F NC YTD*	153	23239	1	136	6	296	39	5977	119	12224

Other Manufacturing Technology

1000000000	0	41663	0	1094	0	3975	0	38385	0	54751
2000000000	0	7230	0	543	0	2336	0	11130	0	29988
2710003070	0	44	0	0	0	9	0	126	0	12735
8428900010	15	223	0	0	0	0	15	431	38	350
8431390090	0	1800	0	0	0	148	0	405	0	12478
8456100000	25	899	0	0	0	0	9	987	68	1814
200000	16	375	0	0	0	0	5	132	14	359
8477106010	1	100	0	0	2	65	1	80	2	90
106070	16	1390	0	0	1	51	18	2001	16	1518
200010	3	47	0	0	2	53	0	0	33	891
200050	23	848	0	0	0	0	27	931	51	4410
300000	10	1544	0	0	1	24	13	230	40	2190
400000	7	163	0	0	1	44	0	0	66	14
510010	18	602	0	0	22	468	8	282	243	2163
510090	10	3	3	84	0	0	6	117	47	17882
590000	46	632	1	15	0	0	46	1608	60	1361
800000	62	3083	0	0	93	47	97	844	195	5923
8479899040	74	719	1	46	1	6	380	6154	118	1138
908040	0	1173	0	0	0	44	0	1741	0	459
8537100030	456	6872	0	0	0	0	109	1652	143	2106
9024100000	0	3965	0	252	0	143	0	3583	0	3280
9031100000	0	199	0	0	0	223	0	406	0	928
300000	0	50	0	0	0	0	0	128	0	137
9032810040	32073	3089	303	21	3485	357	19237	1144	30259	2275

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.

* "C&F NC YTD" does not include code 8465300000.

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U.S. EXPORTS
Metal Cutting and Metal Forming Machine Tool Totals
January 90 - June 90

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
EUROPE						
Bulgaria	1	205	0	0	1	205
Czechoslovakia	5	33	0	0	5	33
Denmark	32	746	22	101	54	846
East Germany	0	0	2	359	2	359
Finland	163	75	30	570	193	645
Greece	326	790	33	2066	359	2856
Hungary	6	104	10	477	16	581
Iceland	0	0	0	0	0	0
Ireland	30	693	47	196	77	889
Luxembourg	1	5	5	5	6	9
Norway	64	438	5	50	69	488
Poland	15	22	12	1425	27	1448
Portugal	15	29	63	1548	78	1577
Romania	0	0	0	0	0	0
Sweden	150	2739	72	1531	222	4270
Turkey	27	79	27	266	54	345
Yugoslavia	5	1306	7	284	12	1591
Oth Europe	1	53	4	3	5	56
TOTAL	7810	97848	4067	74562	11877	172410
NORTH AND CENTRAL AMERICA						
Bahamas	0	0	0	0	0	0
Barbados	1	10	6	11	7	21
Belize	3	12	4	3	7	15
Bermuda	28	18	0	0	28	18
Costa Rica	166	626	12	104	178	729
Dominican Rep	35	221	135	1345	170	1566
El Salvador	5	181	11	155	16	336
Guatemala	10	24	10	71	20	96
Haiti	3	9	5	54	8	62
Honduras	108	415	27	366	135	781
Jamaica	24	85	28	186	52	271
Panama	63	122	7	143	70	265
Trinidad	1	4	4	102	5	106
Oth N & C Am.	16	149	8	181	24	330
TOTAL	8877	99218	5571	67353	14448	166571
SOUTH AMERICA						
Argentina	14	657	17	258	31	915
Bolivia	1	6	0	0	1	6
Chile	131	2258	180	1402	311	3660
Colombia	72	435	69	1319	141	1754
Ecuador	58	191	6	9	64	200
Paraguay	0	0	0	0	0	0
Peru	110	212	11	270	121	482
Uruguay	0	0	0	0	0	0
Oth South Am.	1	48	0	0	1	48
TOTAL	1358	16165	755	6867	2113	23032
OCEANIA						
New Zealand	27	274	22	768	49	1042
Oth Oceania	54	26	2	67	56	93
TOTAL	1206	10307	240	4128	1446	14435

U.S. EXPORTS
Metal Cutting and Metal Forming Machine Tool Totals
January 90 - June 90

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
ASIA						
Bangladesh	0	0	0	0	0	0
Hong Kong	1610	2691	140	969	1750	3660
Iran	0	0	21	18	21	18
Iraq	7	537	60	5896	67	6433
Israel	137	2440	48	1692	185	4132
Jordan	0	0	1	5	1	5
Kuwait	2	18	8	293	10	311
Laos	0	0	0	0	0	0
Lebanon	0	0	0	0	0	0
Macao	0	0	0	0	0	0
Oman	5	13	0	0	5	13
Pakistan	24	463	0	0	24	463
Philippines	246	697	141	1256	387	1953
Qatar	0	0	0	0	0	0
Saudi Arabia	136	277	81	3132	217	3408
Sri Lanka	2	52	0	0	2	52
Syria	0	0	1	6	1	6
United Arab Emr	33	83	13	19	46	102
Vietnam	0	0	0	0	0	0
Oth Asia	3	24	1	15	4	39
TOTAL	7494	82140	3185	85452	10679	167592
AFRICA						
Algeria	0	0	2	134	2	134
Botswana	0	0	0	0	0	0
Egypt	31	80	37	744	68	824
Ethiopia	0	0	0	0	0	0
Gabon	0	0	0	0	0	0
Ghana	0	0	0	0	0	0
Guinea	0	0	0	0	0	0
Kenya	0	0	0	0	0	0
Malawi	0	0	0	0	0	0
Mauritius	0	0	0	0	0	0
Morocco	0	0	0	0	0	0
Niger	0	0	0	0	0	0
Nigeria	100	199	1	4	101	204
South Africa	140	1131	23	450	163	1582
Sudan	0	0	0	0	0	0
Swaziland	0	0	0	0	0	0
Tunisia	1	217	0	0	1	217
Zaire	0	0	0	0	0	0
Zambia	0	0	0	0	0	0
Zimbabwe	3	8	0	0	3	8
Oth Africa	0	0	0	0	0	0
TOTAL	275	1636	63	1332	338	2969

Note: Region totals include top countries detailed by product as well as countries listed above.

Cutting Section Notes:
Total for Metal Cutting and Metal Forming appears in Metal Forming Section.
Product Code 900000001, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.
n.e.c. - Not elsewhere classified.
* "NC Y-T-D Cutting Total" does not include code 8456300000.

RELEASED: August 29, 1990 U.S. IMPORTS - Metal Cutting Machine Tools - June 90

		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8456301010	Traveling wire electro-discharge machines, NC *	495	31439	56	4170
301050	Electro-discharge machines, n.e.c., NC	123	7235	34	2049
301070	Electro-discharge machines, n.e.c., non-NC	198	3992	24	308
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm(26")	1181	92975	202	14560
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm(26")	68	13934	6	2103
100035	Horiz. mach. ctrs., ATC	361	78956	50	8182
100045	Mach. ctrs., n.e.c.	115	15821	11	2117
200010	Unit construction mach. (single station transfer), NC	14	1447	1	152
200090	Unit construction mach. (single station transfer), non-NC	1	361	0	0
300010	Multi-station transfer machines, NC	29	8289	1	311
300090	Multi-station transfer machines, non-NC	50	17981	2	3688
8458110010	Horiz. lathes, multiple spindle, NC	145	24407	25	4400
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	1226	86748	192	13340
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	289	41551	37	5828
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	31	9009	3	2654
190030	Horiz. engine or toolroom lathes, non-NC	2113	23395	334	6443
190050	Automatic bar and/or chucking mach., single spindle, non-NC	536	10673	22	657
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	82	6120	17	2176
190090	Horiz. lathes, n.e.c., non-NC	959	8950	207	1914
911060	Vertical turret lathes, multiple spindle, NC	19	3303	1	204
911080	Vertical turret lathes, n.e.c., NC	21	5228	8	1075
915050	Vertical lathes, excl. VTL's, mult. spindle, NC	0	0	0	0
915070	Vertical lathes, excl. VTL's, n.e.c., NC	30	3494	1	174
991050	Vertical turret lathes, non-NC	64	2542	3	822
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	559	12043	175	4915
8459100000	Way-type unit head machines	0	0	0	0
210080	Other drilling machines, NC	153	9881	11	498
290040	Drilling machines, multiple spindle, non-NC	56	1339	2	22
290050	Drilling machines, radial, non-NC	214	1658	25	215
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	45	568	3	148
290090	Drilling machines, n.e.c., non-NC	244	6594	69	2073
310010	Boring-milling mach., horiz. spind., table, excl. planer, NC	3	439	0	0
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	32	3254	3	237
310070	Boring-milling mach., n.e.c., NC	20	829	2	61
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	18	1535	2	39
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	49	1584	3	375
400040	Boring machines, vertical, NC	0	0	0	0
400050	Boring machines, vertical, non-NC	34	1045	0	0
400070	Boring machines, n.e.c., NC	26	3116	13	1777
400080	Boring machines, n.e.c., non-NC	99	3840	10	1633
510080	Milling machines, knee type, NC	345	4961	34	511
590030	Milling machines, knee type, non-NC	1930	12977	310	2019
610080	Milling machines, excl. knee type, n.e.c., NC	171	10854	38	3520
690050	Milling machines, profile, dup., or die sinking, non-NC	33	344	1	24
690070	Milling machines, bed type, non-NC	39	2042	5	226
690090	Milling machines, n.e.c., non-NC	368	9248	93	775
700020	Threading or tapping machines, n.e.c., NC	85	4385	7	296
700080	Threading or tapping machines, n.e.c., non-NC	96	2467	12	244
8460110080	Flat surface grinding mach., NC	79	6794	6	948
190010	Flat surface grinding mach., recip.-table type, non-NC	486	6321	69	709
190050	Flat surface grinding mach., n.e.c., non-NC	1068	10809	136	1141
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	228	39002	38	4545
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	272	8150	57	2142
290030	Grinding mach., internal cylindrical, non-NC	63	4699	26	920
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	671	19438	162	2726
310080	Sharpening machines (tool & cutter grinding), NC	122	2546	14	451
390050	Sharpening machines (tool & cutter grinding), non-NC	429	5128	34	366
400060	Honing or lapping machines, NC	22	2249	4	425
400080	Honing or lapping machines, non-NC	125	4139	37	1172
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	25	1344	1	91
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	735	20326	167	5419
8461100060	Planing machines, NC	0	0	0	0
100080	Planing machines, non-NC	3	40	2	35
200010	Shaping or slotting machines, NC	68	2347	0	0
200090	Shaping or slotting machines, non-NC	121	1688	5	20
300060	Broaching machines, NC	3	7114	1	1996
300080	Broaching machines, non-NC	58	1621	3	252
401020	Gear cutting for bevel gears	0	0	0	0
401030	Gear hobbers	79	5206	4	221
401040	Gear shapers	12	3204	1	25
401060	Gear cutting machines, n.e.c.	65	423	1	3
405050	Gear grinding or finishing for bevel gears	55	626	0	0
405070	Gear grinding or finishing machines, n.e.c.	47	11696	8	2494
500050	Sawing or cutting-off machines, NC	57	3221	3	246
500090	Sawing or cutting-off machines, non-NC	1008	14533	136	2351
9000000001	Metal cutting machine tools, n.e.c.	203	5618	19	1452
9800000001	Used or rebuilt machine tools	1862	15080	446	2931
9900000001	Machine tools valued at less than $2,500	450762	47302	82958	7774
	Cutting Total			86393	137787
	Y-T-D Cutting Total	471497	843517		
	NC Y-T-D Cutting Total	5593	526451		

Please see notes on last page of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools - June 90

	Belgium		Brazil		Canada		France		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	0	0	0	0	0	0	0	0	0	0
301050	0	0	0	0	0	0	0	0	0	0
301070	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	1	100	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	0	0	4	1102
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	2	206	0	0
110090	0	0	0	0	0	0	0	0	1	996
190030	0	0	111	535	21	372	0	0	0	0
190050	0	0	3	61	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	136	679	1	3	0	0	1	3
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	1	46	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	1	60	0	0
995090	0	0	60	260	6	29	0	0	1	5
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	7	56	0	0	0	0	5	61
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	2	154	2	1361	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	1	169
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	1	26	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	13	1777
400080	0	0	0	0	2	24	0	0	1	9
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	1	3	1	6
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	1	5	2	45	5	38
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	0	0	0	0
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	1	8
190050	0	0	0	0	6	31	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290010	0	0	0	0	18	133	0	0	1	93
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	1	5	0	0	1	2
310080	0	0	0	0	1	4	1	32	0	0
390050	0	0	0	0	0	0	0	0	2	12
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	5	55	0	0	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	0	0	1	9	0	0	36	1857
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	1	68
401020	0	0	0	0	0	0	0	0	0	0
401030	0	0	0	0	0	0	0	0	0	0
401040	0	0	0	0	0	0	0	0	0	0
401060	0	0	0	0	0	0	0	0	0	0
405050	0	0	0	0	0	0	0	0	0	0
405070	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	0	0	0	0	30	345	0	0	15	86
9000000001	0	0	0	0	1	6	0	0	4	10
9800000001	1	75	0	0	34	88	296	309	11	104
9900000001	0	0	2	5	16	12	25	3	2769	474
Month Tot	1	75	319	1596	148	1345	331	2118	2874	6879
Y-T-D Tot	27	1016	1537	8654	911	12086	1109	12717	20091	31692
NC YTD Tot	2	110	2	464	26	2660	47	5347	75	10205

Please see notes on last page of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools - June 90

	Japan		Korea		Singapore		Spain		Sweden	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	29	2604	0	0	0	0	0	0	0	0
301050	9	613	0	0	0	0	0	0	0	0
301070	1	22	0	0	0	0	0	0	0	0
8457100015	105	9216	13	700	4	253	0	0	0	0
100025	4	782	0	0	0	0	0	0	0	0
100035	46	7016	0	0	0	0	0	0	0	0
100045	3	564	3	187	0	0	0	0	0	0
200010	0	0	1	152	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	23	3760	0	0	0	0	0	0	0	0
110030	158	11743	4	235	0	0	0	0	0	0
110050	30	5079	0	0	0	0	0	0	0	0
110090	1	168	0	0	0	0	0	0	0	0
190030	0	0	18	211	24	304	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	3	780	0	0	0	0	0	0	0	0
190090	0	0	7	144	0	0	1	124	0	0
911060	1	204	0	0	0	0	0	0	0	0
911080	4	897	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	1	174	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	16	3794	2	148	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	10	478	0	0	0	0	0	0	1	20
290040	1	18	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	2	47	6	20
290070	2	143	0	0	0	0	1	5	0	0
290090	4	276	0	0	0	0	18	61	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	1	13
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	1	76
590030	5	90	0	0	0	0	114	886	0	0
610080	11	2083	0	0	2	82	0	0	0	0
690050	1	24	0	0	0	0	0	0	0	0
690070	1	35	0	0	0	0	0	0	1	138
690090	2	275	0	0	0	0	0	0	0	0
700020	6	292	0	0	0	0	0	0	0	0
700080	5	129	0	0	0	0	0	0	0	0
8460110080	2	248	0	0	0	0	0	0	1	594
190010	4	168	0	0	42	396	0	0	0	0
190050	1	47	0	0	0	0	1	36	0	0
210080	21	3030	0	0	0	0	0	0	1	523
290010	9	604	1	25	0	0	0	0	2	232
290030	1	73	0	0	0	0	0	0	0	0
290050	20	1250	0	0	0	0	0	0	2	7
310080	0	0	0	0	0	0	0	0	0	0
390050	9	141	0	0	0	0	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	4	149	0	0	0	0	0	0	1	119
900060	1	91	0	0	0	0	0	0	0	0
900080	73	1116	0	0	0	0	2	214	0	0
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	2	184	0	0	0	0	0	0	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	0	0	0	0	0	0	0	0	0	0
401040	0	0	0	0	0	0	0	0	0	0
401060	0	0	0	0	0	0	0	0	0	0
405050	0	0	0	0	0	0	0	0	0	0
405070	0	0	0	0	0	0	0	0	0	0
500050	2	204	0	0	0	0	0	0	0	0
500090	12	777	0	0	0	0	4	30	6	55
9000000001	3	326	0	0	0	0	0	0	0	0
9800000001	26	1652	0	0	0	0	0	0	1	43
9900000001	3318	548	1470	131	0	0	0	0	114	114
Month Tot	3990	61866	1519	1933	72	1037	143	1404	138	1954
Y-T-D Tot	30150	419739	4149	10561	569	10784	1175	11599	1209	6723
NC YTD Tot	3344	362661	90	6125	105	5463	76	1412	10	2658

Please see notes on last page of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools - June 90

	Switzerland		Taiwan		U.K.		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	25	1546	2	20	0	0	0	0	0	0
301050	21	1338	2	50	2	48	0	0	0	0
301070	0	0	22	265	1	21	0	0	0	0
8457100015	1	67	5	417	56	2968	4	345	13	493
100025	0	0	0	0	2	1321	0	0	0	0
100035	0	0	0	0	0	0	4	1166	0	0
100045	0	0	0	0	0	0	1	264	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	1	311	0	0
300090	0	0	0	0	0	0	2	3688	0	0
8458110010	0	0	0	0	0	0	2	640	0	0
110030	0	0	16	860	4	229	1	33	9	239
110050	0	0	1	70	2	254	2	219	0	0
110090	0	0	0	0	0	0	1	1490	0	0
190030	0	0	60	431	39	410	3	3543	58	638
190050	1	247	17	110	0	0	0	0	1	239
190070	3	722	8	65	0	0	2	578	1	30
190090	1	151	18	48	10	147	4	505	28	110
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	3	133	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	1	746	0	0	1	16	0	0	0	0
995090	0	0	0	0	18	207	0	0	72	472
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	1	3	0	0
290050	0	0	3	14	0	0	0	0	2	17
290070	0	0	0	0	0	0	0	0	0	0
290090	5	89	1	12	0	0	0	0	37	119
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	1	25	1	43
310070	0	0	0	0	1	12	0	0	1	49
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	3	375	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	2	1550	0	0	0	0	4	13	1	38
510080	0	0	23	213	6	160	0	0	4	61
590030	1	91	76	418	2	91	0	0	110	435
610080	0	0	6	300	1	9	8	986	10	59
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	3	53	0	0	0	0	0	0
690090	1	21	31	242	2	11	0	0	49	138
700020	0	0	0	0	0	0	1	4	0	0
700080	0	0	0	0	1	3	6	112	0	0
8460110080	0	0	0	0	3	106	0	0	0	0
190010	0	0	10	105	0	0	12	32	0	0
190050	2	203	112	672	9	129	3	2	2	21
210080	2	514	0	0	2	158	12	320	0	0
290010	3	240	1	8	9	166	4	567	9	74
290030	2	186	0	0	0	0	3	531	20	130
290050	42	199	8	17	8	119	74	1038	6	90
310080	0	0	2	12	0	0	7	188	3	216
390050	4	30	1	4	5	45	13	134	0	0
400060	0	0	2	11	0	0	2	414	0	0
400080	0	0	0	0	9	101	6	696	12	52
900060	0	0	0	0	0	0	0	0	0	0
900080	3	338	2	26	8	39	33	1748	9	72
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	2	35	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	2	8	0	0	1	6	2	6
300060	0	0	0	0	1	1996	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	0	0	0	0	0	0	4	221	0	0
401040	0	0	0	0	0	0	0	0	1	25
401060	0	0	0	0	0	0	1	3	0	0
405050	0	0	0	0	0	0	0	0	0	0
405070	2	1276	0	0	0	0	3	999	3	218
500050	0	0	0	0	0	0	0	0	1	42
500090	1	43	12	60	10	45	18	592	28	319
9000000001	4	449	0	0	2	68	2	93	3	500
9800000001	3	58	0	0	50	273	17	294	7	36
9900000001	8	10	66679	5373	317	124	373	238	7867	742
Month Tot	138	10115	67128	10018	581	9276	641	22448	8370	5723
Y-T-D Tot	958	41705	338572	65442	3147	53433	8864	122756	59029	34610
NC YTD Tot	231	14719	526	15799	423	35749	390	53066	246	10014

Please see notes on last page of the metal forming section.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
June 90

RELEASED: August 29, 1990

Metal Forming Machine Tools		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8454300010	Die casting machines	219	10698	40	884
8462100030	Headers and upsetters, including cold headers	87	7542	11	615
100050	Forging or die stamping machines, and hammers, n.e.c.	420	23112	74	2823
210080	Bending, folding, straight. or flat. mach., incl presses, NC	321	15741	37	2308
290030	Press brakes, non-NC	157	4330	36	1015
290040	Bending rolls, non-NC	64	1710	11	163
290050	Bending, folding, straight., or flat., n.e.c., non-NC	646	20528	97	4957
310080	Shearing machines, NC	40	1994	9	177
390050	Shearing machines, non-NC	296	7246	58	1449
410080	Punching or notching mach., incl. comb. punch & shear, NC	199	19882	46	3904
490050	Punching or notching mach., incl. comb. punch & sh., non-NC	379	6624	52	1095
910060	Hydraulic presses, NC	12	3371	2	34
910090	Hydraulic presses, non-NC	936	8810	14	1621
990030	Presses, n.e.c., NC	45	3680	3	94
990035	Mechanical transfer presses, non-NC	10	9075	7	6906
990045	Mechanical presses, n.e.c., non-NC	57	1881	6	618
990060	Presses, n.e.c., non-NC	369	16616	42	5563
8463100080	Draw benches for bars, tubes, profiles, wire or the like	31	1900	5	285
200080	Thread rolling machines	45	2824	3	675
300080	Machines for working wire	814	37795	115	4675
900080	Metal forming machine tools, n.e.c.	224	13744	23	3615
9800000002	Used or rebuilt machine tools	648	9929	55	1162
9900000002	Machine tools valued at less than $2,500	8273	2986	1915	404
	Forming Total			2661	45042
	Y-T-D Forming Total	14292	232017		
	NC Y-T-D Forming Total	617	44668		
	Cutting and Forming Totals:				
	Monthly Total			89054	182829
	Y-T-D Total	485789	1075534		
	NC Y-T-D Total	6210	571119		

Other Manufacturing Technology		TOTAL YTD		TOTAL MO.	
1000000000	Machine tool parts and accessories	0	280003	0	43683
2000000000	Parts for working rubber or plastics - heading 8477	0	165912	0	25932
2710003070	Quenching or cutting oils	0	228	0	60
8428900010	Industrial robots for lifting, handling, loading or unload	1249	24088	98	3283
8431390080	Parts industrial robots, handling and loading - heading 8428	0	44442	0	7458
8456101010	Laser, light or photon beam for working metal, NC	92	16861	12	2480
101020	Laser, light or photon beam for working metal, non-NC	43	2124	2	684
105000	Laser, light or photon beam for other materials	66	3615	9	724
201010	Ultrasonic processes for working metal, NC	0	0	0	0
201050	Ultrasonic processes for working metal, non-NC	6	82	4	61
205000	Ultrasonic processes for working other materials	5	187	0	0
8477103000	Injection molding mach., for manufacturing shoes	98	2059	6	44
106010	Injection molding mach., for rubber or oth. thermosetting	431	34175	58	3618
106050	Injection molding mach., for thermoplastics	1306	123832	173	16112
200010	Extruders for rubber or other thermosetting materials	106	7567	20	1568
200050	Extruders for processing thermoplastics	467	32279	40	5988
300000	Blow molding machines	212	19917	38	3766
400000	Vacuum-molding and other thermoforming machines	112	2201	38	211
510010	Machines for molding or retreading pneumatic tires	357	27932	55	2669
510090	Machines for molding or otherwise forming inner tubes	196	9161	81	1862
590000	Machines for molding or otherwise forming n.e.c.	527	35346	55	4023
800000	Machines for working rubber or plastics n.e.c.	5448	55546	1691	7036
8479899040	Industrial robots, n.e.c.	10377	38344	671	6240
908040	Industrial robot parts	0	15809	0	2278
8537100030	Numerical controls for controlling machine tools	7771	25909	886	3046
9024100000	Machines and appliances for testing metals	0	6194	0	722
9031100000	Machines for balancing mechanical parts	0	6829	0	2381
300000	Profile projectors	0	2979	0	552
9032810020	Industrial process control instr., hydraulic	79729	1118	16108	297
810060	Industrial process control instr., pneumatic	98731	2601	36588	659

Note: Product code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.
n.e.c. - Not elsewhere classified.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
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Metal Forming

	Belgium		Brazil		Canada		France		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	29	671	0	0	3	32
8462100030	0	0	0	0	0	0	0	0	3	289
100050	0	0	0	0	15	411	0	0	3	53
210080	1	63	0	0	2	263	0	0	0	0
290030	7	304	0	0	16	519	0	0	0	0
290040	0	0	0	0	1	8	0	0	2	56
290050	0	0	0	0	18	929	15	976	1	3
310080	8	166	0	0	0	0	0	0	0	0
390050	6	113	0	0	7	232	1	80	0	0
410080	0	0	0	0	0	0	0	0	0	0
490050	0	0	0	0	0	0	1	20	3	118
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	0	0	3	871	0	0	2	32
990030	0	0	0	0	0	0	0	0	0	0
990035	0	0	0	0	0	0	0	0	0	0
990045	0	0	0	0	0	0	0	0	0	0
990060	1	1201	0	0	19	1366	0	0	2	32
8463100080	0	0	0	0	2	228	0	0	2	49
200080	0	0	0	0	0	0	0	0	1	653
300080	22	1091	0	0	2	199	2	60	12	1275
900080	0	0	0	0	4	59	2	9	4	51
9800000002	1	20	0	0	28	26	1	20	5	298
9900000002	0	0	0	0	20	10	4	8	103	7
Month Tot	46	2959	0	0	166	5790	26	1173	146	2948
Y-T-D Tot	344	14708	0	0	1035	30641	213	2143	862	23194
NC YTD Tot	35	3101	0	0	25	952	2	20	46	1001
C&F Month	47	3034	319	1596	314	7136	357	3291	3020	9827
C&F Y-T-D	371	15724	1537	8654	1946	42727	1322	14860	20953	54886
C&F NC YTD	37	3211	2	464	51	3611	49	5367	121	11206

Other Manufacturing Technology

1000000000	0	142	0	37	0	3055	0	484	0	1375
2000000000	0	15	0	0	0	5789	0	2365	0	604
2710003070	0	0	0	0	0	46	0	0	0	0
8428900010	0	0	0	0	8	83	0	0	1	760
8431390080	0	24	0	8	0	1241	0	77	0	112
8456101010	0	0	0	0	0	0	0	0	0	0
101020	0	0	0	0	0	0	0	0	0	0
105000	0	0	0	0	2	115	0	0	0	0
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	0	0	0	0	0	0	0	0	0	0
8477103000	0	0	0	0	0	0	0	0	3	24
106010	0	0	0	0	1	17	0	0	8	90
106050	0	0	0	0	27	3173	0	0	7	301
200010	0	0	0	0	0	0	3	611	3	244
200050	0	0	0	0	7	2723	0	0	6	478
300000	0	0	0	0	16	59	2	2352	6	434
400000	0	0	0	0	1	5	0	0	1	108
510010	0	0	0	0	4	248	2	319	29	117
510090	0	0	60	13	3	316	0	0	2	2
590000	0	0	0	0	7	622	1	4	4	153
800000	0	0	0	0	68	257	21	448	10	242
899040	2	106	0	0	11	99	12	183	1	199
908040	0	0	0	0	0	36	0	8	0	18
8537100030	0	0	0	0	3	46	0	0	73	64
9024100000	0	0	0	0	0	227	0	0	0	8
9031100000	0	0	0	0	0	5	0	0	0	0
300000	0	0	0	0	0	0	0	0	0	0
9032810020	24	72	0	0	0	0	0	0	0	0
810060	0	0	0	0	0	0	0	0	0	0

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
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Metal Forming

	Japan		Korea		Singapore		Spain		Sweden	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	3	127	0	0	0	0	0	0	0	0
8462100030	8	326	0	0	0	0	0	0	0	0
100050	40	2167	0	0	0	0	0	0	0	0
210080	27	1531	0	0	0	0	0	0	0	0
290030	1	12	0	0	0	0	0	0	0	0
290040	1	62	0	0	0	0	0	0	0	0
290050	6	271	0	0	0	0	1	3	15	462
310080	0	0	0	0	0	0	0	0	0	0
390050	10	329	0	0	0	0	0	0	4	75
410080	9	1241	0	0	0	0	0	0	0	0
490050	15	497	0	0	0	0	16	142	3	68
910060	0	0	0	0	0	0	0	0	0	0
910090	2	89	0	0	0	0	0	0	0	0
990030	1	64	0	0	0	0	0	0	0	0
990035	1	6767	0	0	0	0	0	0	0	0
990045	3	170	0	0	0	0	0	0	0	0
990060	4	359	0	0	0	0	0	0	0	0
8463100080	1	7	0	0	0	0	0	0	0	0
200080	1	7	0	0	0	0	1	15	0	0
300080	63	1404	0	0	0	0	0	0	1	5
900080	9	811	0	0	0	0	1	9	0	0
9800000002	6	567	0	0	0	0	1	5	5	109
9900000002	398	40	0	0	36	4	32	38	6	8
Month Tot	609	16850	0	0	36	4	52	210	34	727
Y-T-D Tot	2451	87646	11	124	43	57	287	2500	416	4304
NC YTD Tot	281	21279	0	0	0	0	0	0	3	439
C&F Month	4599	78716	1519	1933	108	1040	195	1614	172	2680
C&F Y-T-D	32601	507385	4160	10684	612	10841	1462	14099	1625	11027
C&F NC YTD	3625	383940	90	6125	105	5463	76	1412	13	3097

Other Manufacturing Technology

1000000000	0	13295	0	186	0	305	0	205	0	1234
2000000000	0	4211	0	117	0	226	0	88	0	27
2710003070	0	0	0	0	0	0	0	0	0	0
8428900010	66	1065	0	0	0	0	0	0	11	554
8431390080	0	990	0	0	0	0	0	0	0	78
8456101010	11	2432	0	0	0	0	0	0	0	0
101020	1	435	0	0	0	0	0	0	0	0
105000	0	0	0	0	0	0	0	0	0	0
201010	0	0	0	0	0	0	0	0	0	0
201050	1	51	0	0	0	0	0	0	3	10
205000	0	0	0	0	0	0	0	0	0	0
8477103000	0	0	0	0	0	0	0	0	0	0
106010	22	1736	0	0	0	0	0	0	0	0
106050	73	7491	9	332	1	28	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200050	2	941	0	0	0	0	0	0	0	0
300000	2	150	0	0	0	0	0	0	0	0
400000	1	48	0	0	0	0	0	0	0	0
510010	16	1012	0	0	0	0	0	0	0	0
510090	4	1482	0	0	0	0	0	0	0	0
590000	32	2000	0	0	0	0	0	0	0	0
800000	48	3009	1400	177	0	0	0	0	0	0
899040	610	3072	0	0	0	0	0	0	19	875
908040	0	1446	0	0	0	0	0	0	0	107
8537100030	798	2878	0	0	0	0	0	0	0	0
9024100000	0	63	0	0	0	0	0	0	0	0
9031100000	0	2022	0	0	0	0	0	0	0	0
300000	0	222	0	0	0	0	0	0	0	0
9032810020	0	0	3000	10	0	0	0	0	0	0
810060	25	9	26000	41	0	0	0	0	942	261

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
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U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
June 90

Metal Forming

	Switzerland		Taiwan		U.K.		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	0	0	5	54
8462100030	0	0	0	0	0	0	0	0	0	0
100050	6	122	0	0	2	26	1	3	7	40
210080	0	0	0	0	0	0	6	389	1	61
290030	0	0	0	0	0	0	0	0	12	180
290040	0	0	6	28	1	11	0	0	0	0
290050	2	310	7	70	5	337	18	1531	9	65
310080	0	0	0	0	0	0	0	0	1	12
390050	0	0	0	0	19	484	0	0	11	136
410080	2	484	0	0	0	0	34	1939	1	239
490050	0	0	2	26	1	167	11	57	0	0
910060	0	0	0	0	0	0	0	0	2	34
910090	1	66	0	0	2	221	3	148	1	194
990030	0	0	0	0	0	0	0	0	2	29
990035	0	0	0	0	0	0	6	139	0	0
990045	1	389	0	0	0	0	0	0	2	59
990060	1	8	11	490	0	0	3	2082	1	26
8463100080	0	0	0	0	0	0	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	1	35	3	374	8	183	1	49	0	0
900080	0	0	0	0	0	0	2	2663	1	12
9800000002	1	15	0	0	2	20	4	68	1	16
9900000002	230	17	381	141	2	3	36	23	667	108
Month Tot	245	1446	410	1128	42	1452	125	9091	724	1264
Y-T-D Tot	714	12268	3755	5704	525	7340	1153	33523	2483	7865
NC YTD Tot	18	2609	5	807	5	142	163	11232	34	3086
C&F Month	383	11561	67538	11146	623	10728	766	31538	9094	6987
C&F Y-T-D	1672	53974	342327	71146	3672	60773	10017	156279	61512	42475
C&F NC YTD	249	17328	531	16606	428	35891	553	64298	280	13100

Other Manufacturing Technology

1000000000	0	2917	0	1539	0	2622	0	13422	0	2864
2000000000	0	564	0	869	0	542	0	8461	0	2054
2710003070	0	0	0	0	0	0	0	14	0	0
8428900010	0	0	0	0	1	6	2	70	9	745
8431390080	0	1734	0	172	0	616	0	1640	0	764
8456101010	1	48	0	0	0	0	0	0	0	0
101020	0	0	0	0	0	0	1	249	0	0
105000	3	606	0	0	0	0	0	0	4	2
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	0	0	0	0	0	0	0	0	0	0
8477103000	0	0	0	0	0	0	1	17	2	2
106010	2	334	1	163	0	0	19	1243	5	34
106050	3	607	2	40	1	9	42	2739	8	1392
200010	4	93	4	82	0	0	5	499	1	38
200050	0	0	3	71	7	50	15	1724	0	0
300000	0	0	5	475	0	0	7	296	0	0
400000	0	0	0	0	0	0	35	50	0	0
510010	0	0	0	0	2	91	0	0	2	882
510090	0	0	0	0	3	28	9	21	0	0
590000	0	0	0	0	2	26	5	412	4	807
800000	2	8	9	369	9	119	84	2210	40	197
899040	2	227	0	0	2	31	8	1374	4	74
908040	0	24	0	0	0	213	0	310	0	117
8537100030	4	19	0	0	0	0	8	38	0	0
9024100000	0	65	0	8	0	284	0	45	0	22
9031100000	0	0	0	0	0	0	0	9	0	344
300000	0	0	0	0	0	198	0	4	0	128
9032810020	303	19	0	0	0	0	0	0	12781	196
810060	0	0	9270	23	0	0	6	238	345	87

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Cutting and Metal Forming Machine Tool Totals
June 90

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
EUROPE						
Austria	58	431	0	0	58	431
Bulgaria	0	0	0	0	0	0
Czechoslovakia	6	109	0	0	6	109
Denmark	31	600	65	117	96	717
East Germany	13	222	0	0	13	222
Finland	37	119	2	251	39	370
Hungary	0	0	0	0	0	0
Ireland	1	52	0	0	1	52
Luxembourg	0	0	0	0	0	0
Netherlands	4	229	6	101	10	330
Norway	0	0	1	61	1	61
Poland	37	702	0	0	37	702
Portugal	26	48	13	178	39	227
Romania	0	0	0	0	0	0
USSR	1	7	0	0	1	7
Yugoslavia	43	178	0	0	43	178
Oth Europe	12	453	0	0	12	453
TOTAL	5116	57420	803	20713	5919	78133
NORTH AND CENTRAL AMERICA						
Barbados	0	0	0	0	0	0
Dominican Rep	0	0	0	0	0	0
Mexico	2	115	36	150	38	265
Oth N & C Am.	0	0	0	0	0	0
TOTAL	150	1460	202	5941	352	7401
SOUTH AMERICA						
Argentina	12	52	0	0	12	52
Chile	0	0	0	0	0	0
Colombia	0	0	0	0	0	0
Paraguay	0	0	0	0	0	0
Peru	0	0	0	0	0	0
Uruguay	0	0	0	0	0	0
Venezuela	0	0	0	0	0	0
Oth South Am.	0	0	0	0	0	0
TOTAL	331	1648	0	0	331	1648
OCEANIA						
Australia	4	221	0	0	4	221
New Zealand	0	0	1	194	1	194
Oth Oceania	0	0	0	0	0	0
TOTAL	4	221	1	194	5	416

U.S. IMPORTS
Metal Cutting and Metal Forming Machine Tool Totals
June 90

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
ASIA						
China	8052	1914	591	110	8643	2025
Hong Kong	1	2	0	0	1	2
India	12	106	1*	1	13	107
Indonesia	0	0	0	0	0	0
Iran	0	0	0	0	0	0
Iraq	0	0	0	0	0	0
Israel	14	145	8	100	22	245
Malaysia	0	0	0	0	0	0
Pakistan	0	0	0	0	0	0
Philippines	0	0	0	0	0	0
Thailand	0	0	0	0	0	0
Oth Asia	0	0	0	0	0	0
TOTAL	80788	77020	1655	18194	82443	95214
AFRICA						
Ghana	0	0	0	0	0	0
Kenya	0	0	0	0	0	0
Niger	0	0	0	0	0	0
South Africa	4	17	0	0	4	17
Swaziland	0	0	0	0	0	0
Oth Africa	0	0	0	0	0	0
TOTAL	4	17	0	0	4	17

Note: Region totals include top countries detailed by product as well as countries listed above.

Cutting Section Notes:
Total for Metal Cutting and Metal Forming appears in Metal Forming Section.
Product Code 9000000001, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.
n.e.c. - Not elsewhere classified.
* Includes code 8456301030, Traveling wire electro-discharge machines, non-NC.

U.S. IMPORTS - Metal Cutting Machine Tools - January 90 - June 90

RELEASED: August 29, 1990

		TOTAL YTD	
		UNITS	$000
8456301010	Traveling wire electro-discharge machines, NC *	495	31439
301050	Electro-discharge machines, n.e.c., NC	123	7235
301070	Electro-discharge machines, n.e.c., non-NC	198	3992
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm(26")	1181	92975
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm(26")	68	13934
100035	Horiz. mach. ctrs., ATC	361	78956
100045	Mach. ctrs., n.e.c.	115	15821
200010	Unit construction mach. (single station transfer), NC	14	1447
200090	Unit construction mach. (single station transfer), non-NC	1	361
300010	Multi-station transfer machines, NC	29	8289
300090	Multi-station transfer machines, non-NC	50	17981
8458110010	Horiz. lathes, multiple spindle, NC	145	24407
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	1226	86748
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	289	41551
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	31	9009
190030	Horiz. engine or toolroom lathes, non-NC	2113	23395
190050	Automatic bar and/or chucking mach., single spindle, non-NC	536	10673
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	82	6120
190090	Horiz. lathes, n.e.c., non-NC	959	8950
911060	Vertical turret lathes, multiple spindle, NC	19	3303
911080	Vertical turret lathes, n.e.c., NC	21	5228
915050	Vertical lathes, excl. VTL's, mult. spindle, NC	0	0
915070	Vertical lathes, excl. VTL's, n.e.c., NC	30	3494
991050	Vertical turret lathes, non-NC	64	2542
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	559	12043
8459100000	Way-type unit head machines	0	0
210080	Other drilling machines, NC	153	9881
290040	Drilling machines, multiple spindle, non-NC	56	1339
290050	Drilling machines, radial, non-NC	214	1658
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	45	568
290090	Drilling machines, n.e.c., non-NC	244	6594
310010	Boring-milling mach., horiz. spind., table, excl. planer, NC	3	439
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	32	3254
310070	Boring-milling mach., n.e.c., NC	20	829
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	18	1535
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	49	1584
400040	Boring machines, vertical, NC	0	0
400050	Boring machines, vertical, non-NC	34	1045
400070	Boring machines, n.e.c., NC	26	3116
400080	Boring machines, n.e.c., non-NC	99	3840
510080	Milling machines, knee type, NC	345	4961
590030	Milling machines, knee type, non-NC	1930	12977
610080	Milling machines, excl. knee type, n.e.c., NC	171	10854
690050	Milling machines, profile, dup., or die sinking, non-NC	33	344
690070	Milling machines, bed type, non-NC	39	2042
690090	Milling machines, n.e.c., non-NC	368	9248
700020	Threading or tapping machines, n.e.c., NC	85	4385
700080	Threading or tapping machines, n.e.c., non-NC	96	2467
8460110080	Flat surface grinding mach., NC	79	6794
190010	Flat surface grinding mach., recip.-table type, non-NC	486	6321
190050	Flat surface grinding mach., n.e.c., non-NC	1068	10809
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	228	39002
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	272	8150
290030	Grinding mach., internal cylindrical, non-NC	63	4699
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	671	19438
310080	Sharpening machines (tool & cutter grinding), NC	122	2546
390050	Sharpening machines (tool & cutter grinding), non-NC	429	5128
400060	Honing or lapping machines, NC	22	2249
400080	Honing or lapping machines, non-NC	125	4139
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	25	1344
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	735	20326
8461100060	Planing machines, NC	0	0
100080	Planing machines, non-NC	3	40
200010	Shaping or slotting machines, NC	68	2347
200090	Shaping or slotting machines, non-NC	121	1688
300060	Broaching machines, NC	3	7114
300080	Broaching machines, non-NC	58	1621
401020	Gear cutting for bevel gears	0	0
401030	Gear hobbers	79	5206
401040	Gear shapers	12	3204
401060	Gear cutting machines, n.e.c.	65	423
405050	Gear grinding or finishing for bevel gears	55	626
405070	Gear grinding or finishing machines, n.e.c.	47	11696
500050	Sawing or cutting-off machines, NC	57	3221
500090	Sawing or cutting-off machines, non-NC	1008	14533
9000000001	Metal cutting machine tools, n.e.c.	203	5618
9800000001	Used or rebuilt machine tools	1862	15080
9900000001	Machine tools valued at less than $2,500	450762	47302
	Y-T-D Cutting Total	471497	843517
	NC Y-T-D Cutting Total	5593	526451

Please see notes on last page of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools - January 90 - June 90

	Belgium		Brazil		Canada		France		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	0	0	0	0	0	0	3	152	0	0
301050	0	0	0	0	0	0	0	0	0	0
301070	0	0	0	0	0	0	12	156	0	0
8457100015	0	0	0	0	0	0	4	359	0	0
100025	0	0	0	0	0	0	5	513	0	0
100035	0	0	0	0	0	0	1	209	0	0
100045	0	0	1	29	12	1140	1	260	8	1204
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	1	78	0	0	13	1976
300090	0	0	0	0	7	3490	0	0	5	2151
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	0	0	3	31	0	0
110050	0	0	0	0	0	0	18	2190	1	107
110090	0	0	0	0	0	0	0	0	4	2525
190030	0	0	448	2829	45	724	4	120	0	0
190050	0	0	28	233	1	13	0	0	0	0
190070	0	0	0	0	0	0	1	35	0	0
190090	0	0	638	3475	9	29	3	120	1	3
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	1	46	2	1260	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	1	2	0	0	2	370
991050	0	0	0	0	0	0	7	364	0	0
995090	0	0	161	742	37	124	16	648	3	22
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	1	435	4	468	1	146	0	0
290040	0	0	0	0	0	0	1	4	4	23
290050	0	0	44	412	0	0	0	0	10	140
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	12	380	6	1764	7	2254
310010	0	0	0	0	0	0	1	142	0	0
310040	0	0	0	0	2	37	0	0	2	397
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	1	26	2	777	0	0
390050	0	0	0	0	1	15	0	0	23	418
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	15	187
400070	0	0	0	0	0	0	0	0	23	1916
400080	0	0	0	0	33	335	0	0	41	383
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	1	3	1	6
610080	0	0	0	0	1	827	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	1	99
690090	0	0	0	0	2	10	11	669	45	4017
700020	0	0	0	0	0	0	0	0	0	0
700080	6	45	0	0	4	47	0	0	3	48
8460110080	2	110	0	0	2	55	0	0	10	1255
190010	0	0	0	0	0	0	0	0	21	424
190050	0	0	0	0	27	117	1	8	3	50
210080	0	0	0	0	0	0	1	39	2	146
290010	0	0	0	0	99	681	0	0	2	127
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	14	63	0	0	23	449
310080	0	0	0	0	1	4	7	45	0	0
390050	0	0	0	0	15	59	2	48	5	34
400060	0	0	0	0	0	0	0	0	1	150
400080	0	0	0	0	5	55	0	0	1	25
900060	0	0	0	0	1	4	0	0	7	133
900080	1	3	0	0	26	416	29	116	131	5415
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	3	8	0	0	32	90	0	0	1	155
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	2	110
401020	0	0	0	0	0	0	0	0	0	0
401030	0	0	0	0	0	0	0	0	2	211
401040	0	0	0	0	0	0	0	0	0	0
401060	0	0	1	172	2	7	0	0	0	0
405050	0	0	0	0	0	0	0	0	0	0
405070	0	0	0	0	2	76	1	129	1	76
500050	0	0	0	0	0	0	0	0	1	7
500090	5	20	72	216	144	1602	5	124	168	959
9000000001	0	0	0	0	9	130	73	1373	18	98
9800000001	6	825	0	0	90	718	298	385	21	209
9900000001	4	6	143	111	268	218	589	527	19459	3413
Y-T-D Tot	27	1016	1537	8654	911	12086	1109	12717	20091	31692
MC YTD Tot	2	110	2	464	26	2660	47	5347	75	10205

Please see notes on last page of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools - January 90 - June 90

	Japan		Korea		Singapore		Spain		Sweden	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	320	24314	0	0	0	0	0	0	0	0
301050	66	4399	0	0	0	0	1	18	1	2
301070	9	577	0	0	0	0	0	0	0	0
8457100015	677	63561	36	2095	92	4882	2	156	0	0
100025	47	8668	0	0	0	0	0	0	0	0
100035	274	65292	0	0	0	0	0	0	0	0
100045	10	2165	3	187	1	83	0	0	0	0
200010	0	0	13	1366	0	0	0	0	0	0
200090	1	361	0	0	0	0	0	0	0	0
300010	9	5250	3	179	0	0	0	0	0	0
300090	3	1370	0	0	0	0	0	0	0	0
8458110010	124	19588	0	0	0	0	0	0	0	0
110030	1034	78400	31	1839	0	0	0	0	0	0
110050	255	36960	0	0	0	0	0	0	0	0
110090	14	2786	0	0	0	0	3	447	0	0
190030	21	336	68	775	167	2047	9	435	0	0
190050	27	1806	0	0	0	0	0	0	0	0
190070	3	780	0	0	0	0	0	0	0	0
190090	14	1539	12	295	0	0	1	124	0	0
911060	8	1739	1	159	0	0	0	0	1	201
911080	15	3789	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	9	1645	2	204	0	0	0	0	0	0
991050	1	170	0	0	0	0	0	0	0	0
995090	18	3979	43	2602	0	0	7	72	2	18
8459100000	0	0	0	0	0	0	0	0	0	0
210080	125	7926	1	97	0	0	0	0	2	28
290040	14	454	0	0	0	0	0	0	0	0
290050	4	86	0	0	0	0	8	142	8	64
290070	8	271	0	0	0	0	15	67	10	38
290090	27	922	0	0	0	0	102	521	7	39
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	1	247	0	0
310070	6	201	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	2	180	2	17
390050	0	0	0	0	0	0	4	544	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	2	473	0	0	0	0	0	0	0	0
400070	3	1201	0	0	0	0	0	0	0	0
400080	3	1126	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	68	532	1	76
590030	32	632	0	0	0	0	880	6595	0	0
610080	27	5245	0	0	12	498	0	0	0	0
690050	3	62	0	0	0	0	0	0	0	0
690070	12	361	0	0	0	0	0	0	3	452
690090	17	1009	0	0	0	0	18	85	0	0
700020	84	4381	0	0	0	0	0	0	0	0
700080	51	1599	0	0	0	0	0	0	0	0
8460110080	14	1036	0	0	0	0	1	12	2	973
190010	85	1715	0	0	207	2704	0	0	0	0
190050	12	675	1	22	14	334	4	428	2	6
210080	119	19575	0	0	0	0	0	0	3	1379
290010	28	1445	1	25	0	0	0	0	4	400
290030	4	237	0	0	0	0	0	0	1	333
290050	115	10163	0	0	0	0	1	148	3	11
310080	6	312	0	0	0	0	0	0	0	0
390050	60	1079	0	0	0	0	0	0	0	0
400060	7	580	0	0	0	0	0	0	0	0
400080	14	962	0	0	0	0	0	0	24	1083
900060	11	890	0	0	0	0	0	0	0	0
900080	184	5005	13	109	0	0	4	443	2	14
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	66	2061	0	0	0	0	0	0	0	0
200090	5	135	0	0	37	230	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	5	351	0	0	0	0	0	0	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	12	1662	0	0	0	0	0	0	0	0
401040	2	345	0	0	0	0	0	0	0	0
401060	1	175	0	0	0	0	0	0	0	0
405050	54	159	0	0	0	0	0	0	0	0
405070	6	1369	0	0	0	0	0	0	0	0
500050	9	501	0	0	0	0	0	0	0	0
500090	101	4220	0	0	0	0	12	92	10	152
9000000001	17	788	2	21	0	0	2	14	4	157
9800000001	410	4722	0	0	0	0	9	288	10	154
9900000001	25426	4152	3919	586	39	6	21	9	1107	1129
Y-T-D Tot	30150	419739	4149	10561	569	10784	1175	11599	1209	6723
MC YTD Tot	3344	362661	90	6125	105	5463	76	1412	10	2658

Please see notes on last page of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools - January 90 - June 90

	Switzerland		Taiwan		U.K.		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	126	6514	44	384	0	0	0	0	2	74
301050	35	1960	8	177	11	466	1	214	0	0
301070	27	1053	85	1035	5	35	2	81	58	1054
8457100015	2	650	43	3220	256	14057	16	1569	53	2425
100025	0	0	13	1137	2	1321	1	2294	0	0
100035	0	0	13	1700	10	270	62	9463	1	2022
100045	3	447	14	912	4	181	40	8657	18	555
200010	0	0	0	0	0	0	1	81	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	1	89	2	717	0	0
300090	13	2094	0	0	0	0	22	8875	0	0
8458110010	0	0	0	0	5	645	16	4174	0	0
110030	5	390	74	3926	15	720	1	33	63	1409
110050	2	610	4	255	4	592	3	309	2	528
110090	0	0	0	0	1	104	9	3147	0	0
190030	5	14	458	3562	254	3224	3	3543	631	5787
190050	14	1711	152	1264	9	588	304	4818	1	239
190070	18	2991	45	305	0	0	4	1666	11	343
190090	7	762	36	96	70	1154	5	509	163	844
911060	6	463	0	0	0	0	1	622	2	120
911080	0	0	3	133	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	3	177	0	0	1	30	3	489	9	579
991050	8	1742	10	36	9	25	0	0	29	205
995090	7	878	2	151	53	1118	20	403	190	1286
8459100000	0	0	0	0	0	0	0	0	0	0
210080	3	117	0	0	1	170	14	489	1	5
290040	6	627	25	71	0	0	2	6	4	153
290050	0	0	79	452	0	0	2	16	59	347
290070	0	0	6	49	0	0	5	137	1	5
290090	5	89	1	12	0	0	10	279	67	335
310010	0	0	2	297	0	0	0	0	0	0
310040	0	0	2	3	2	472	4	1419	19	679
310070	2	61	2	12	1	12	6	384	3	159
390040	0	0	1	19	0	0	4	415	6	101
390050	0	0	15	106	0	0	3	375	3	126
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	12	53	2	10	1	257	2	64
400070	0	0	0	0	0	0	0	0	0	0
400080	3	1560	1	7	3	71	13	315	2	43
510080	12	239	172	1488	66	2188	1	122	25	315
590030	1	91	642	3490	84	562	5	309	284	1291
610080	5	86	66	1542	12	694	17	1764	31	198
690050	0	0	5	24	0	0	1	4	24	254
690070	0	0	18	405	0	0	2	684	3	41
690090	4	217	121	731	8	609	14	682	128	1219
700020	0	0	0	0	0	0	1	4	0	0
700080	1	6	0	0	4	81	27	641	0	0
8460110080	1	173	25	278	14	2169	6	709	2	24
190010	0	0	90	498	0	0	82	964	1	16
190050	19	721	838	5744	44	795	39	1401	64	509
210080	18	2778	0	0	7	3796	77	11149	1	140
290010	31	2674	8	153	32	801	11	1341	56	502
290030	14	1402	0	0	3	68	13	2458	28	201
290050	53	1084	73	314	52	763	310	5845	27	596
310080	7	50	31	185	3	446	59	1064	8	441
390050	51	568	88	413	96	658	98	1932	14	338
400060	0	0	2	11	3	147	9	1361	0	0
400080	0	0	0	0	34	459	21	1292	26	262
900060	1	4	0	0	0	0	1	82	4	232
900080	21	1101	39	261	51	236	146	6087	88	1119
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	2	35	1	5
200010	0	0	0	0	0	0	2	286	0	0
200090	27	285	2	8	3	11	9	759	2	6
300060	0	0	0	0	3	7114	0	0	0	0
300080	0	0	0	0	36	316	15	845	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	0	0	0	0	2	15	61	3277	2	41
401040	0	0	0	0	0	0	9	2834	1	25
401060	0	0	0	0	14	35	47	34	0	0
405050	1	467	0	0	0	0	0	0	0	0
405070	5	2701	0	0	5	685	15	6256	12	404
500050	0	0	8	139	0	0	37	2465	2	109
500090	7	148	78	369	60	303	169	5040	177	1288
9000000001	10	1135	0	0	9	261	17	922	42	719
9800000001	82	675	535	229	201	3904	140	2566	60	405
9900000001	287	190	334581	29785	1582	963	6821	1784	56516	4422
Y-T-D Tot	958	41705	338572	65442	3147	53433	8864	122756	59029	34610
MC Y-D Tot	231	14719	526	15799	423	35749	390	53066	246	10014

Please see notes on last page of the metal forming section.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
January 90 - June 90

RELEASED: August 29, 1990

Metal Forming Machine Tools		TOTAL YTD UNITS	$000
8454300010	Die casting machines	219	10698
8462100030	Headers and upsetters, including cold headers	87	7542
100050	Forging or die stamping machines, and hammers, n.e.c.	420	23112
210080	Bending, folding, straight. or flat. mach., incl presses, NC	321	15741
290030	Press brakes, non-NC	157	4330
290040	Bending rolls, non-NC	64	1710
290050	Bending, folding, straight., or flat., n.e.c., non-NC	646	20528
310080	Shearing machines, NC	40	1994
390050	Shearing machines, non-NC	296	7246
410080	Punching or notching mach., incl. comb. punch & shear, NC	199	19882
490050	Punching or notching mach., incl. comb. punch & sh., non-NC	379	6624
910060	Hydraulic presses, NC	12	3371
910090	Hydraulic presses, non-NC	936	8810
990030	Presses, n.e.c., NC	45	3680
990035	Mechanical transfer presses, non-NC	10	9075
990045	Mechanical presses, n.e.c., non-NC	57	1881
990060	Presses, n.e.c., non-NC	369	16616
8463100080	Draw benches for bars, tubes, profiles, wire or the like	31	1900
200080	Thread rolling machines	45	2824
300080	Machines for working wire	814	37795
900080	Metal forming machine tools, n.e.c.	224	13744
9800000002	Used or rebuilt machine tools	648	9929
9900000002	Machine tools valued at less than $2,500	8273	2986
	Y-T-D Forming Total	14292	232017
	NC Y-T-D Forming Total	617	44668
	Cutting and Forming Totals:		
	Y-T-D Total	485789	1075534
	NC Y-T-D Total	6210	571119

Other Manufacturing Technology		TOTAL YTD UNITS	$000
1000000000	Machine tool parts and accessories	0	280003
2000000000	Parts for working rubber or plastics - heading 8477	0	165912
2710003070	Quenching or cutting oils	0	228
8428900010	Industrial robots for lifting, handling, loading or unload	1240	24088
8431390080	Parts industrial robots, handling and loading - heading 8428	0	44442
8456101010	Laser, light or photon beam for working metal, NC	92	16861
101020	Laser, light or photon beam for working metal, non-NC	43	2124
105000	Laser, light or photon beam for other materials	66	3615
201010	Ultrasonic processes for working metal, NC	0	0
201050	Ultrasonic processes for working metal, non-NC	6	82
205000	Ultrasonic processes for working other materials	5	187
8477103000	Injection molding mach., for manufacturing shoes	98	2059
106010	Injection molding mach., for rubber or oth. thermosetting	431	34175
106050	Injection molding mach., for thermoplastics	1306	123832
200010	Extruders for rubber or other thermosetting materials	106	7567
200050	Extruders for processing thermoplastics	467	32279
300000	Blow molding machines	212	19917
400000	Vacuum-molding and other thermoforming machines	112	2201
510010	Machines for molding or retreading pneumatic tires	357	27932
510090	Machines for molding or otherwise forming inner tubes	196	9161
590000	Machines for molding or otherwise forming n.e.c.	527	35346
800000	Machines for working rubber or plastics n.e.c.	5448	55546
8479899040	Industrial robots, n.e.c.	10377	38344
908040	Industrial robot parts	0	15809
8537100030	Numerical controls for controlling machine tools	7771	25909
9024100000	Machines and appliances for testing metals	0	6194
9031100000	Machines for balancing mechanical parts	0	6829
300000	Profile projectors	0	2979
9032810020	Industrial process control instr., hydraulic	79729	1118
810060	Industrial process control instr., pneumatic	98731	2601

Note: Product code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.
n.e.c. - Not elsewhere classified.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
January 90 - June 90

Metal Forming

	Belgium		Brazil		Canada		France		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	15	7	0	0	79	3337	0	0	17	497
8462100030	1	1273	0	0	0	0	1	12	15	1944
100050	0	0	0	0	40	1584	94	84	18	838
210080	3	988	0	0	23	933	2	20	16	724
290030	28	858	0	0	103	3027	0	0	0	0
290040	0	0	0	0	10	98	1	367	16	299
290050	4	22	0	0	195	4969	55	1108	43	564
310080	28	855	0	0	1	9	0	0	0	0
390050	42	811	0	0	44	1117	2	95	10	465
410080	1	1068	0	0	1	10	0	0	1	54
490050	0	0	0	0	18	1002	1	20	39	546
910060	3	190	0	0	0	0	0	0	0	0
910090	0	0	0	0	45	2936	2	2	32	144
990030	0	0	0	0	0	0	0	0	29	222
990035	0	0	0	0	0	0	0	0	0	0
990045	0	0	0	0	2	13	0	0	1	10
990060	2	1347	0	0	136	6431	13	50	46	665
8463100080	6	269	0	0	9	984	0	0	7	94
200080	0	0	0	0	1	11	0	0	2	700
300080	121	6119	0	0	22	1954	5	137	98	10296
900080	0	0	0	0	23	992	5	131	22	1399
9800000002	40	894	0	0	186	1145	2	71	20	3627
9900000002	50	6	0	0	97	86	30	47	430	105
Y-T-D Tot	344	14708	0	0	1035	30641	213	2143	862	23194
NC YTD Tot	35	3101	0	0	25	952	2	20	46	1001
C&F Y-T-D	371	15724	1537	8654	1946	42727	1322	14860	20953	54886
C&F NC YTD	37	3211	2	464	51	3611	49	5367	121	11206

Other Manufacturing Technology

1000000000	0	3525	0	225	0	32496	0	4943	0	10981
2000000000	0	2535	0	18	0	30982	0	14825	0	5228
2710003070	0	0	0	0	0	152	0	0	0	0
8428900010	2	108	0	0	111	2229	1	49	3	2121
8431390080	0	214	0	132	0	6506	0	367	0	959
8456101010	0	0	0	0	0	0	0	0	0	0
101020	0	0	0	0	1	114	0	0	0	0
105000	0	0	0	0	6	267	0	0	1	5
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	0	0	0	0	0	0	1	8	0	0
8477103000	0	0	0	0	0	0	1	114	36	1650
106010	0	0	0	0	23	2541	28	3352	15	729
106050	1	36	0	0	230	24565	5	923	51	7774
200010	3	16	0	0	10	88	3	611	10	335
200050	2	170	0	0	55	4059	1	70	33	4000
300000	0	0	0	0	27	732	5	3751	11	1326
400000	0	0	0	0	5	112	0	0	8	220
510010	3	25	0	0	59	5367	30	444	55	1317
510090	0	0	60	13	9	999	2	16	17	24
590000	0	0	0	0	45	3416	2	138	36	1134
800000	91	763	0	0	227	2852	333	3935	46	1150
8479899040	11	258	0	0	630	948	12	183	5	391
908040	0	110	0	0	0	236	0	81	0	258
8537100030	0	0	0	0	34	70	1	2	204	300
9024100000	0	37	0	0	0	522	0	41	0	209
9031100000	0	0	0	0	0	25	0	53	0	164
300000	0	0	0	0	0	7	0	0	0	9
9032810020	24	72	0	0	16	85	0	0	42	1
810060	2	1	0	0	0	0	0	0	1826	176

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
January 90 - June 90

Metal Forming

	Japan		Korea		Singapore		Spain		Sweden	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	56	5185	0	0	0	0	0	0	0	0
8462100030	37	3354	0	0	0	0	0	0	0	0
100050	126	12965	3	88	5	9	1	6	8	292
210080	200	9199	0	0	0	0	0	0	2	195
290030	8	187	0	0	2	44	0	0	0	0
290040	1	62	0	0	0	0	0	0	9	528
290050	61	4724	0	0	0	0	2	7	66	1556
310080	6	902	0	0	0	0	0	0	0	0
390050	64	2743	1	30	0	0	0	0	10	206
410080	63	7545	0	0	0	0	0	0	0	0
490050	27	855	0	0	0	0	104	1013	8	158
910060	1	616	0	0	0	0	0	0	1	243
910090	167	3185	0	0	0	0	1	14	1	150
990030	11	3017	0	0	0	0	0	0	0	0
990035	3	8836	0	0	0	0	0	0	0	0
990045	28	1189	0	0	0	0	0	0	0	0
990060	46	2278	0	0	0	0	5	15	11	228
8463100080	5	211	0	0	0	0	0	0	0	0
200080	28	1530	0	0	0	0	11	519	0	0
300080	338	12042	0	0	0	0	0	0	5	21
900080	85	3995	0	0	0	0	8	783	4	396
9800000002	43	2630	0	0	0	0	1	3	10	191
9900000002	1047	396	7	5	36	4	154	139	281	137
Y-T-D Tot	2451	87646	11	124	43	57	287	2500	416	4304
NC YTD Tot	281	21279	0	0	0	0	0	0	3	439
C&F Y-T-D	32601	507385	4160	10684	612	10841	1462	14099	1625	11027
C&F NC YTD	3625	383940	90	6125	105	5463	76	1412	13	3097

Other Manufacturing Technology

1000000000	0	82691	0	1000	0	3434	0	1432	0	7865
2000000000	0	32792	0	369	0	565	0	456	0	546
2710003070	0	37	0	0	0	0	0	0	0	0
8428900010	431	10139	0	0	0	0	0	0	58	2780
8431390080	0	5887	0	270	0	0	0	61	0	723
8456101010	79	15717	0	0	0	0	0	0	0	0
101020	1	435	0	0	0	0	0	0	0	0
105000	0	0	0	0	0	0	0	0	0	0
201010	0	0	0	0	0	0	0	0	0	0
201050	2	56	0	0	0	0	0	0	3	10
205000	3	141	0	0	0	0	0	0	0	0
8477103000	0	0	0	0	0	0	0	0	0	0
106010	213	18557	4	184	4	243	0	0	0	0
106050	394	48970	28	976	16	274	0	0	1	15
200010	26	4044	1	8	0	0	1	124	0	0
200050	39	4836	1	11	0	0	0	0	25	1305
300000	54	4741	42	234	0	0	2	281	0	0
400000	3	285	0	0	0	0	0	0	0	0
510010	184	18021	0	0	0	0	0	0	0	0
510090	21	3888	4	79	0	0	0	0	2	4
590000	118	25829	2	38	0	0	0	0	2	140
800000	1466	22546	1900	238	2	600	12	19	18	59
8479899040	9393	25166	61	55	0	0	5	208	69	3374
908040	0	7440	0	0	0	11	0	0	0	492
8537100030	7254	25150	0	0	0	0	0	0	0	0
9024100000	0	1758	0	0	0	0	0	0	0	162
9031100000	0	5154	0	7	0	0	0	10	0	20
300000	0	1162	0	0	0	0	0	0	0	0
9032810020	135	31	8500	34	0	0	0	0	1	8
810060	1123	46	28500	49	0	0	0	0	4947	999

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS

Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology

January 90 - June 90

Metal Forming

	Switzerland		Taiwan		U.K.		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	2	355	1	182	3	93	6	888	40	154
8462100030	0	0	0	0	0	0	33	959	0	0
100050	15	3185	5	72	35	1466	26	1423	44	1100
210080	5	138	3	82	4	60	46	2754	17	648
290030	0	0	4	32	0	0	0	0	12	180
290040	1	5	14	104	3	62	0	0	9	185
290050	14	958	28	237	21	1047	64	4489	93	847
310080	3	214	0	0	0	0	0	0	2	14
390050	1	181	3	15	66	738	25	471	28	375
410080	8	2108	1	76	1	83	112	6577	11	2361
490050	13	717	15	70	71	1138	70	802	13	301
910060	0	0	1	650	0	0	4	1638	2	34
910090	12	618	587	629	3	252	41	546	45	335
990030	2	149	0	0	0	0	1	263	2	29
990035	1	100	0	0	0	0	6	139	0	0
990045	11	434	0	0	1	7	12	170	2	59
990060	1	8	51	1740	20	591	20	3026	18	237
8463100080	1	3	0	0	0	0	3	339	0	0
200080	0	0	2	43	0	0	0	0	1	19
300080	17	1445	19	545	52	1053	131	4087	6	97
900080	19	1511	6	152	20	149	26	4155	6	79
9800000002	115	67	15	16	169	524	39	636	8	124
9900000002	473	74	3000	1060	56	78	488	161	2124	688
Y-T-D Tot	714	12268	3755	5704	525	7340	1153	33523	2483	7865
NC YTD Tot	18	2609	5	807	5	142	163	11232	34	3086
C&F Y-T-D	1672	53974	342327	71146	3672	60773	10017	156279	61512	42475
C&F NC YTD	249	17328	531	16606	428	35891	553	64298	280	13100

Other Manufacturing Technology

1000000000	0	17225	0	8387	0	19870	0	67935	0	17995
2000000000	0	4258	0	7873	0	4215	0	50581	0	10670
2710003070	0	1	0	0	0	0	0	37	0	0
8428900010	8	448	0	0	56	1586	542	1417	37	3211
8431390080	0	9070	0	864	0	5305	0	7051	0	7034
8456101010	3	105	0	0	6	723	1	104	3	213
101020	0	0	0	0	3	380	37	1060	1	135
105000	9	1268	0	0	28	1028	2	22	20	1025
201010	0	0	0	0	0	0	0	0	0	0
201050	1	17	0	0	0	0	0	0	0	0
205000	0	0	0	0	1	38	0	0	0	0
8477103000	1	149	5	32	3	4	50	108	2	2
106010	9	1806	45	2212	0	0	46	2284	44	2267
106050	38	3744	46	1874	17	445	321	24586	158	9650
200010	8	350	9	170	1	29	24	1555	10	236
200050	7	2164	36	1212	59	816	199	13079	10	557
300000	0	0	8	541	0	0	60	7480	3	832
400000	0	0	1	15	0	0	94	1485	1	84
510010	0	0	0	0	8	171	8	155	10	2431
510090	2	176	2	4	19	765	49	2231	9	962
590000	143	418	5	197	47	509	50	1760	77	1768
800000	372	3041	46	1151	138	1285	553	15545	244	2363
8479899040	6	754	0	0	22	538	50	4443	113	2027
908040	0	590	0	136	0	1428	0	4472	0	554
8537100030	5	45	0	0	13	67	200	205	60	70
9024100000	0	211	0	12	0	1562	0	803	0	876
9031100000	0	54	0	0	0	46	0	252	0	1044
300000	0	71	0	0	0	1270	0	281	0	178
9032810020	1892	76	0	0	6330	38	165	17	62624	755
810060	0	0	43553	171	795	45	14572	584	3413	529

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Cutting and Metal Forming Machine Tool Totals
January 90 June 90

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
EUROPE						
Austria	1165	7034	7	248	1172	7282
Bulgaria	0	0	0	0	0	0
Czechoslovakia	51	574	1	85	52	660
Denmark	174	1192	105	618	279	1811
East Germany	254	1181	150	4	404	1185
Finland	49	338	55	2457	104	2794
Hungary	1	70	0	0	1	70
Ireland	5	79	0	0	5	79
Luxembourg	0	0	0	0	0	0
Netherlands	202	1264	27	652	229	1916
Norway	1	12	3	185	4	197
Poland	179	2910	0	0	179	2910
Portugal	88	305	42	668	130	973
Romania	1	19	0	0	1	19
USSR	5	61	0	0	5	61
Yugoslavia	389	3260	6	516	395	3776
Oth Europe	45	1566	10	207	55	1773
TOTAL	39189	301507	4920	105621	44109	407127
NORTH AND CENTRAL AMERICA						
Barbados	0	0	0	0	0	0
Dominican Rep	127	56	1	5	128	61
Mexico	250	229	341	806	591	1035
Oth N & C Am.	0	0	0	0	0	0
TOTAL	1288	12371	1377	31452	2665	43823
SOUTH AMERICA						
Argentina	21	151	0	0	21	151
Chile	0	0	0	0	0	0
Colombia	1	15	0	0	1	15
Paraguay	0	0	0	0	0	0
Peru	1	2	0	0	1	2
Uruguay	0	0	0	0	0	0
Venezuela	3	326	0	0	3	326
Oth South Am.	0	0	0	0	0	0
TOTAL	1563	9148	0	0	1563	9148
OCEANIA						
Australia	53	1369	6	230	59	1599
New Zealand	1	5	115	338	116	342
Oth Oceania	0	0	0	0	0	0
TOTAL	54	1374	121	568	175	1941

U.S. IMPORTS
Metal Cutting and Metal Forming Machine Tool Totals
January 90 June 90

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
ASIA						
China	55384	9190	1525	280	56909	9470
Hong Kong	384	296	6	19	390	315
India	98	1045	6	22	104	1067
Indonesia	1	3	0	0	1	3
Iran	0	0	0	0	0	0
Iraq	0	0	0	0	0	0
Israel	84	1920	58	274	142	2193
Malaysia	0	0	1	150	1	150
Pakistan	0	0	0	0	0	0
Philippines	0	0	0	0	0	0
Thailand	0	0	0	0	0	0
Oth Asia	1	68	0	0	1	68
TOTAL	429392	519047	7856	94276	437248	613323
AFRICA						
Ghana	4	8	0	0	4	8
Kenya	0	0	0	0	0	0
Niger	0	0	0	0	0	0
South Africa	5	59	18	102	23	160
Swaziland	2	3	0	0	2	3
Oth Africa	0	0	0	0	0	0
TOTAL	11	70	18	102	29	171

Note: Region totals include top countries detailed by product as well as countries listed above.

Cutting Section Notes:
Total for Metal Cutting and Metal Forming appears in Metal Forming Section.
Product Code 9000000001, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.
n.e.c. - Not elsewhere classified.
* Includes code 8456301030, Traveling wire electro-discharge machines, non-NC.